

多年实践经验
Years of practical experience



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LIMTA PILING MACHINERY(HEBEI)CO.,LTD.

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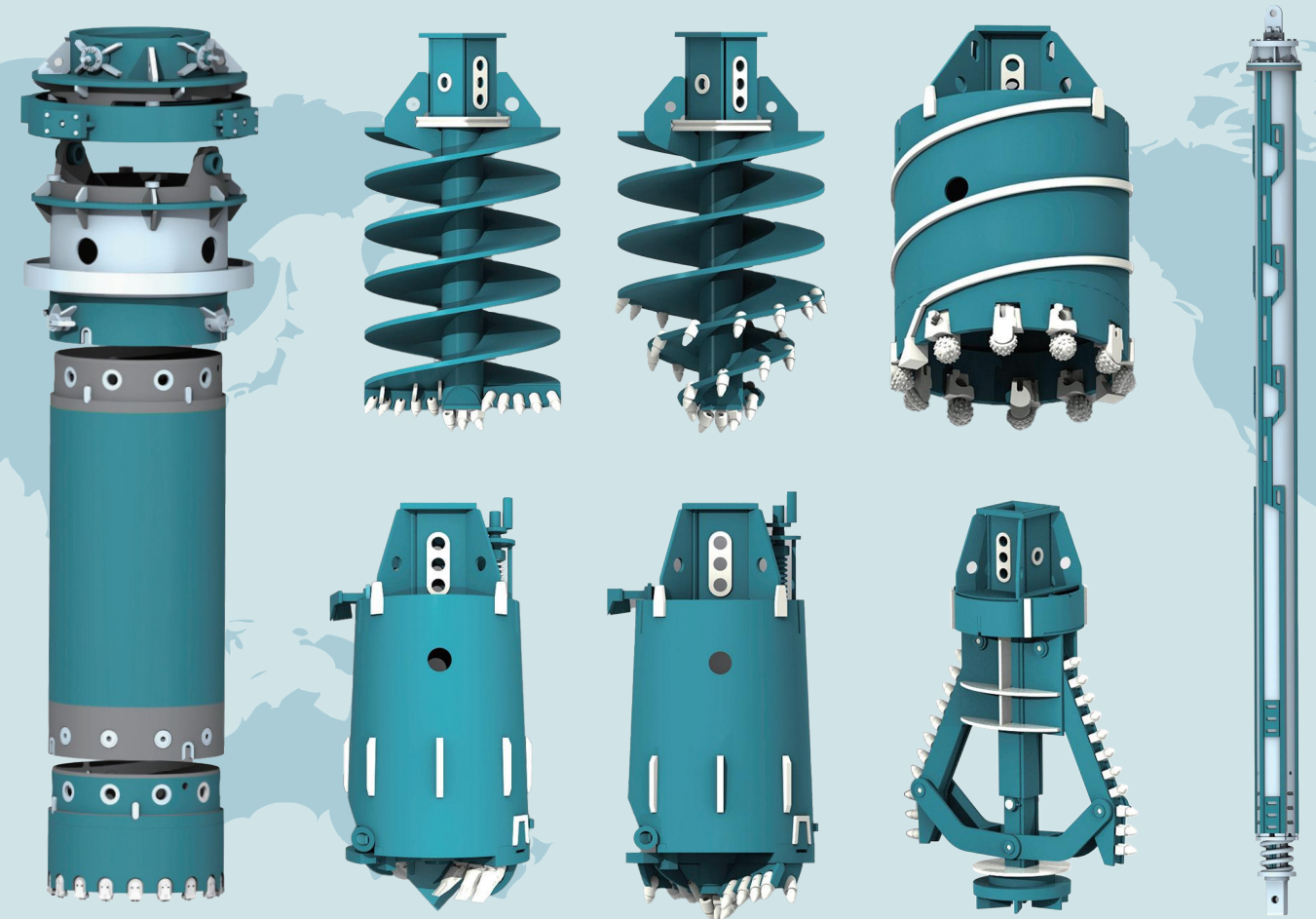
Version May 2023 ©PRINTED IN CHINA Number: Limta Piling(23-05)Rotary drilling rig brochure



联达宣传册

LIMTA EQUIPMENT BROCHURE

<https://www.hblimta.com/>



<http://www.limta.cn/>

专注 · 创造 · 价值

FOCUS · CREATION · VALUE

联达汇创桩工机械（河北）有限公司专注于钻杆钻具设计、钻机及配套租赁、钻机售后服务及再制造等业务，秉承“专注、创造、价值”的发展理念，努力成为钻机服务领域的行业领导品牌。

联达汇创拥有一支专业的产品设计、主机维修团队，行业耕耘十年有余，可以提供从主机到配件到工法支持的全方位的销售、租赁、维修、工法支持等服务，力争让施工客户获得一站到家的体验，一次性解决所有问题，实现产品质量可靠、售租模式齐全、服务团队专业的目标，并打造一支快速响应团队，及时了解客户所需，排除客户困难，真正做到为客户创造价值，最终实现双方共赢。

Limta Piling Machinery(Hebei)Co.,Ltd. Focuses on the design of kelly bar and drilling tools, Leasing of drilling rigs and accessories, after-sales service and remanufacturing drilling rigs. Adhering to the development concept of “FOCUS · CREATION · VALUE”, we strive to become a leading brand in the field of drilling rig services.

Limta has a professional team of product design and machine maintenance. We can provide comprehensive sales, leasing, maintenance and construction method support from the rigs to accessories to method support. We try to provide construction clients a one-stop home experience and help them solve all problems at once. We try to achieve the goal of reliable product quality, complete sales and rent models, professional service team. And build a fast response team to timely understand customer's needs, eliminate customer difficulties, truly create value for customers, and ultimately achieve win-win results for both parties.

施工工法助您赢利
Construction Method Help You Gain Profits

- 发挥钻机潜能; Exert machine's potential;
- 提高施工效率; Improve operating efficiency;
- 减少施工故障; Reduce the accident rate;
- 增加投资回报; Increase the investment return;

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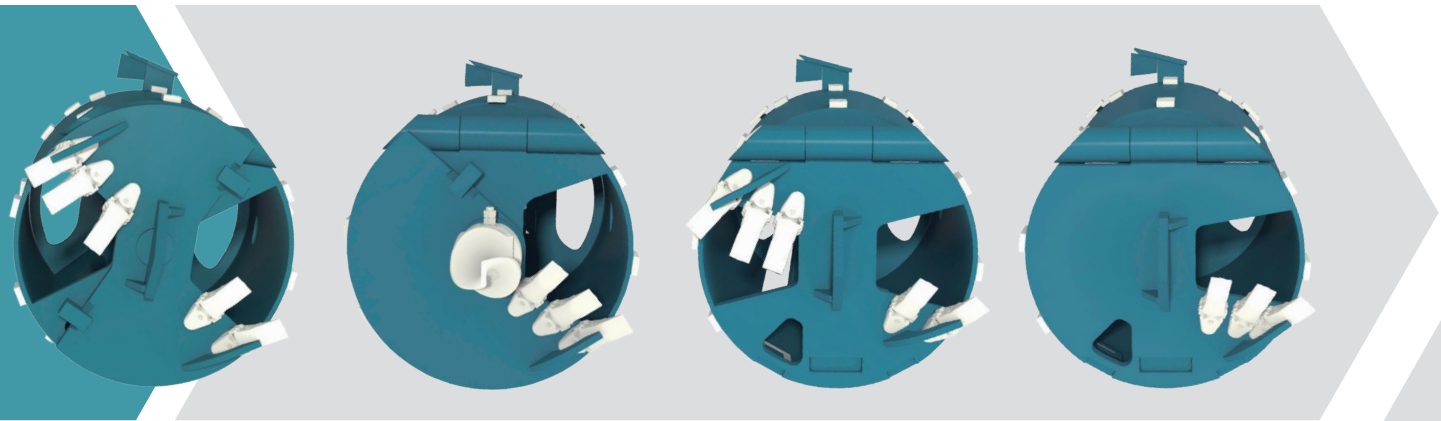
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土层捞砂斗

Drilling Bucket with Soil Teeth

土层捞砂斗

Drilling Bucket with Soil Teeth



双底双开
Double bottom and double cut

双底单开
Double bottom and single cut

单底双开
Single bottom and double cut

单底单开
Single bottom and single cut

型谱表 Model List

钻孔直径 Pile Dia.	筒体高度 Shell HIT.	筒体壁厚 Shell THK.	固定底厚度 Fixed Bottom THK.	旋转底厚度 Rotate Bottom THK.	齿数 Teeth No.	重量 Weight
φ600	1200	16	40	40	4	650
φ800	1200	16	40	50	4	900
φ900	1200	16	40	50	5	1050
φ1000	1200	16	40	50	5	1200
φ1200	1200	16	40	50	7	1500
φ1500	1200	16	40	50	9	2100
φ1600	1200	16	40	50	9	2350
φ1800	1000	20	50	50	10	3100
φ2000	800	20	50	50	14	3550
φ2200	800	20	50	50	16	4100
φ2500	800	25	50	50	19	5500
φ2800	800	25	50	50	22	6300
φ3000	800	25	50	50	24	7800

备注：所有度量单位为毫米（mm）；重量单位为千克（kg）。
Remark：The length is in millimeters, weight in kilograms.

可定制项目 Customizable Items

- 钻孔直径定制

● 筒体高度定制

● 关键结构加强定制

● 进土口定制

● 单双底定制

● 方头尺寸定制

● 开锁底机构定制

● 齿型定制
- Piling DIA. Customized

Shell HIT. Customized

Key Component Reinforce Customized

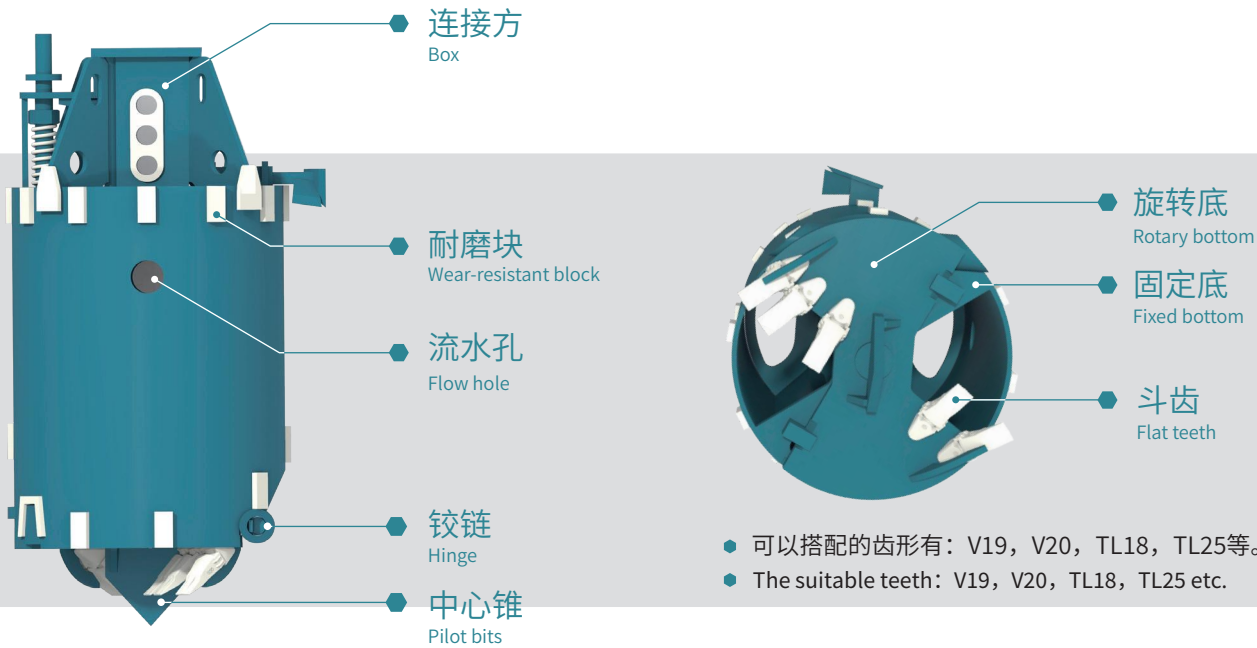
Soil Cut Customized

Single or Double Bottom Customized

Kelly Box Customized

Bottom Open Type Customized

Flat Teeth Customized



- 可以搭配的齿形有：V19，V20，TL18，TL25等。
- The suitable teeth：V19，V20，TL18，TL25 etc.

钻具特点 Feature

- 可选加长直筒体设计，防止钻进时斜孔；

● 内置防吸钻流水孔，依工况增加裙边；

● 适用地层：淤泥层、砂砾层、粉（粘）土层、强风化软岩层等；
- Longer bucket shell is helpful to avoid pile inclined;

● Ventilation plate can avoid bucket stuck by vacuum space, collar plates are used depending on constructions;

● Applicable scope: silt, gravel, clay and highly weathered soft rock;

- φD：钻孔直径

● L：筒体高度

● T：筒体壁厚

● BP1：固定底厚度

● BP2：旋转底厚度

● H：整体高度

● A：连接方尺寸
- φD: Pile Dia.

L: Shell HIT.

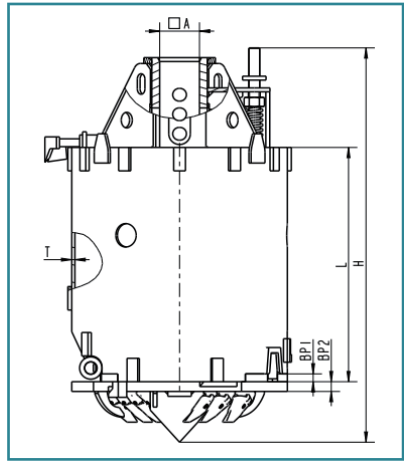
T: Shell THK.

BP1: Fixed Bottom THK.

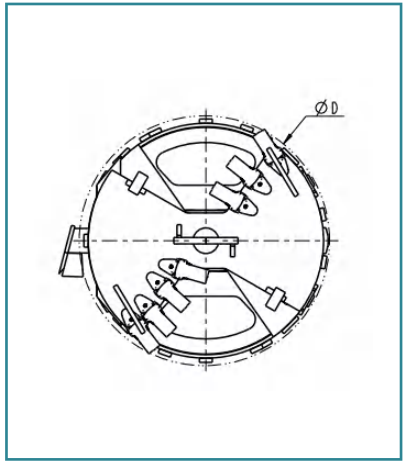
BP2: Rotate Bottom THK.

H: Overall HIT.

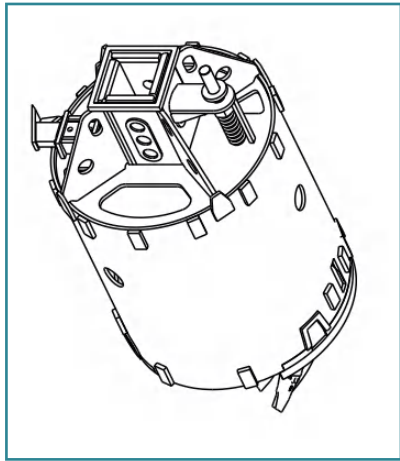
A: Box Size



正视图
Front View



仰视图
Bottom View



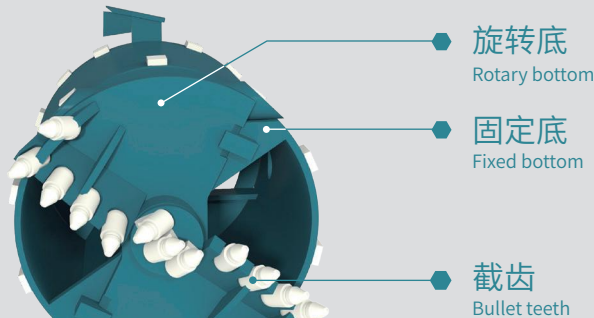
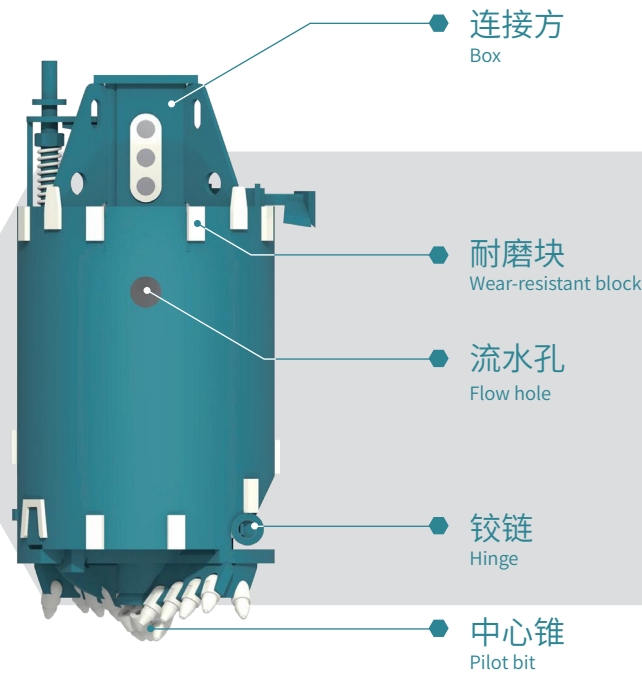
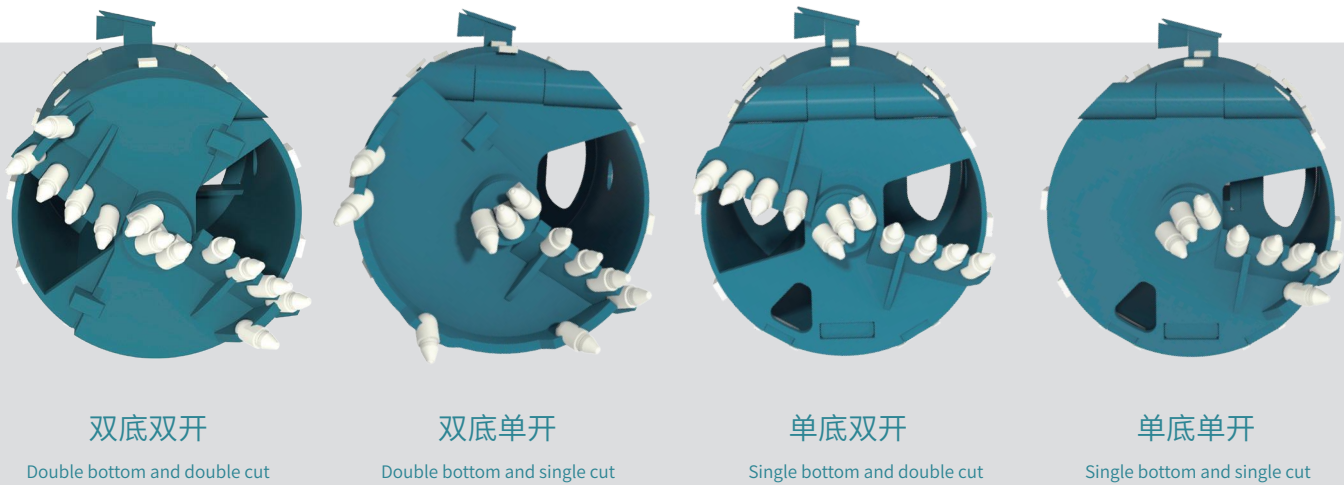
轴侧图
Isometric View

嵌岩捞砂斗

Drilling Bucket with Rock Teeth

嵌岩捞砂斗

Drilling Bucket with Rock Teeth

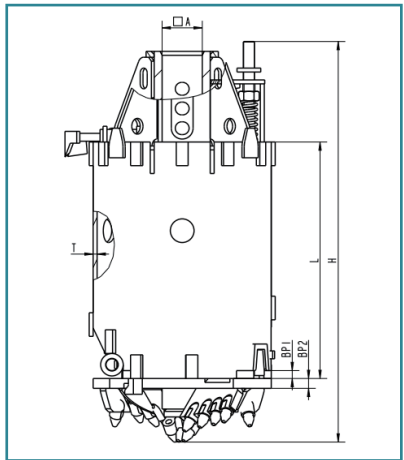


- 可以搭配的齿形有：B47K19、B47K22、B47K25、C31等。
- The suitable teeth: B47K19, B47K22, B47K25, C31 etc.

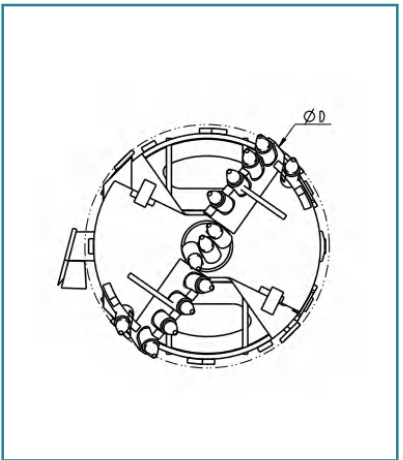
钻机特点 Feature

- 可定制手自一体式开锁底机构，内置防吸钻流水孔；
- 整体式中心锥，弧形导板布齿，大钻机双开锁底机构设计；
- 钻齿轨迹交错布置，全断面内交叉覆盖，相互制造自由面；
- 适用地层：砂砾层、卵石层、强风化、中风化岩层；
- Option half-automatic or manul mechanic bottom open system, Built-in ventilation pipe;
- Cast pilot with rock drilling bits, arc guide plate teeth arrangement, double unlocking system;
- Staggered arrangement of rock drilling bits;
- Applicable layers: gravel, pebble, highly or medium weathered rock;

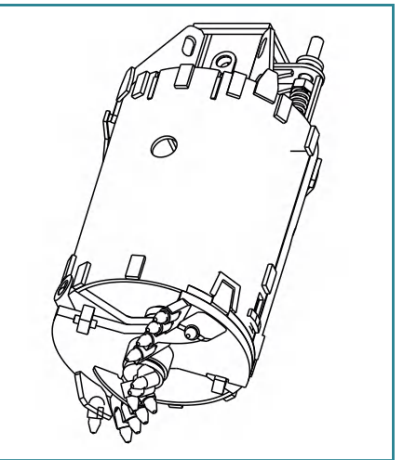
- φD: 钻孔直径 φD: Pile Dia.
- L: 筒体高度 L: Shell HIT.
- T: 筒体壁厚 T: Shell THK.
- BP1: 固定底厚度 BP1: Fixed Bottom THK.
- BP2: 旋转底厚度 BP2: Rotate Bottom THK.
- H: 整体高度 H: Overall HIT.
- A: 连接方尺寸 A: Box Size



正视图
Front View



仰视图
Bottom View



轴侧图
Isometric View



型谱表

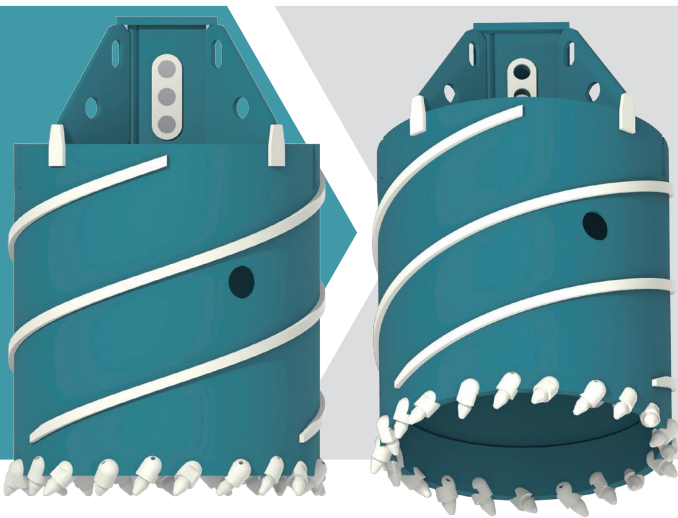
Model List

钻孔直径	筒体高度	筒体壁厚	固定底厚度	旋转底厚度	齿数	重量
Pile Dia.	Shell HIT.	Shell THK.	Fixed Bottom THK.	Rotate Bottom THK.	Teeth No.	Weight
φ600	1200	20	40	40	6	750
φ800	1200	20	40	50	11	1000
φ900	1200	20	40	50	12	1250
φ1000	1200	20	40	50	13	1400
φ1200	1200	20	40	50	17	1700
φ1500	1200	20	40	50	20	2350
φ1600	1200	20	40	50	21	2550
φ1800	1000	20	50	50	25	3150
φ2000	800	20	50	50	26	3650
φ2200	800	20	50	50	29	4500
φ2500	800	25	50	50	32	5550
φ2800	800	25	50	50	35	6550
φ3000	800	30	50	50	47	8300

备注：所有度量单位为毫米（mm）；重量单位为千克（kg）。
Remark : The length is in millimeters, weight in kilograms.

截齿筒钻

Core Barrel with Bullet Teeth



钻具特点 Feature

- 筒体环切释放岩石围压；
- 截齿阶跃破碎兼研磨钻进；
- 小钻具取芯率高，大钻具分级配合破碎；
- 适用地层：回填层、中风化岩层、基岩层；
- Cutting ring with rock bits, releasing the internal stress of rock;
- Rock bits perform stage breaking and drilling;
- Small barrel facilitates the coring operation, large barrel performs stage breaking;
- Applicable layers: backfill layer, medium weathered rock, bedrock;

型谱表
Model List

钻孔直径	筒体高度	筒体壁厚	加强圈厚度	加强圈高度	齿数	重量
Pile Dia.	Shell HIT.	Shell THK.	Stiffening Ring THK.	Stiffening Ring HIT.	Teeth No.	Weight
φ600	1200	20	40	200	9	550
φ800	1200	20	40	200	12	750
φ900	1200	20	40	200	12	900
φ1000	1200	20	40	200	15	1000
φ1200	1200	20	40	200	18	1250
φ1500	1200	20	40	200	24	1600
φ1600	1200	20	40	200	24	1750
φ1800	1000	20	40	200	27	1800
φ2000	800	20	40	200	30	1900
φ2200	800	20	40	200	33	2150
φ2500	800	25	40	200	39	2800
φ2800	800	25	40	200	42	3550
φ3000	800	30	40	200	45	4100

备注：所有度量单位为毫米 (mm)；重量单位为千克 (kg)。
Remark: The length is in millimeters, weight in kilograms.

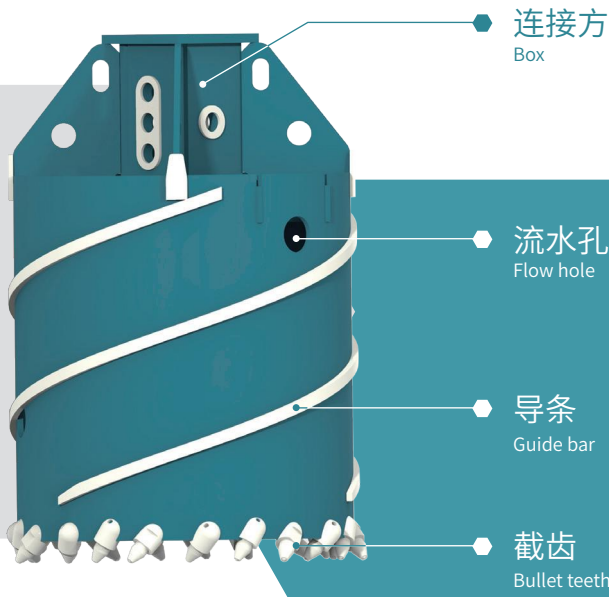
可定制项目 Customizable Items

- 直径定制
- 筒体高度定制
- 关重结构加强定制
- 方头尺寸定制
- 钻齿数目定制
- DIA. Customized
- Shell HIT. Customized
- Key Component Reinforce Customized
- Kelly Box Customized
- Teeth No. Customized



截齿筒钻

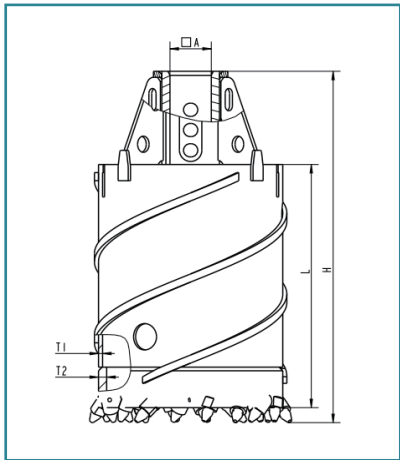
Core Barrel with Bullet Teeth



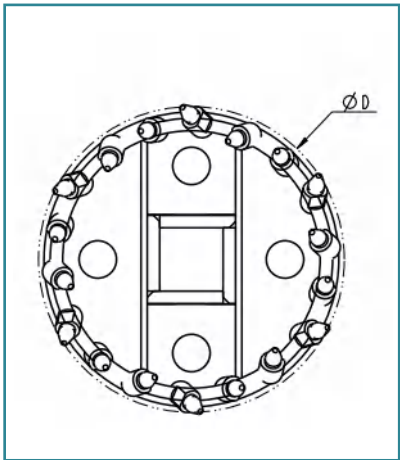
导条作用 Function of guide bar

- 进行导渣，防止二次碾磨，影响钻进效率。
- Conduct slag guidance to prevent secondary grinding from affecting drilling efficiency.

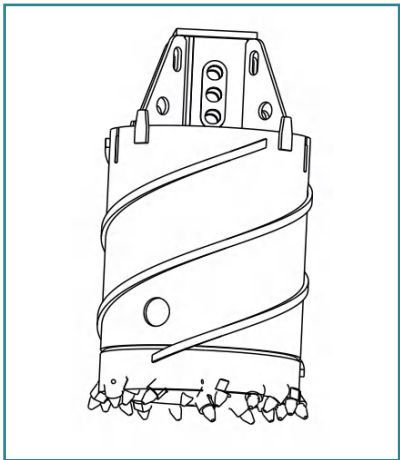
- 可以搭配的齿形有：B47K19、B47K22、B47K25、C31等。
- The suitable teeth: B47K19, B47K22, B47K25, C31 etc.



正视图
Front View

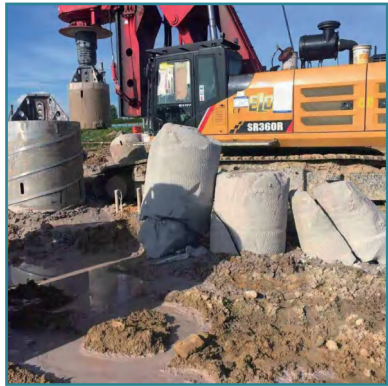


仰视图
Bottom View



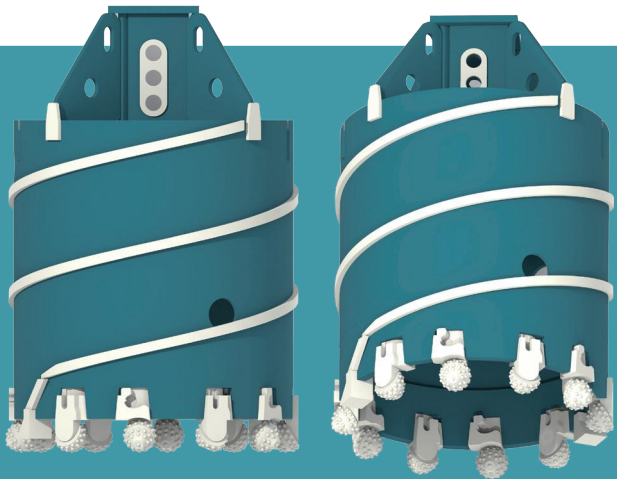
轴侧图
Isometric View

- φD: 钻孔直径
- L: 筒体高度
- T1: 筒体壁厚
- T2: 加强圈厚度
- H: 整体高度
- A: 连接方尺寸
- φD: Pile Dia.
- L: Shell HIT.
- T1: Shell THK.
- T2: Stiffening Ring THK.
- H: Overall HIT.
- A: Box Size



牙轮筒钻

Core Barrel with Roller Bit



钻具特点 Feature

- 筒体环切释放岩石围压；
- 牙轮钻齿滚压研磨钻进，钻齿损耗小；
- 小钻具取芯率高，大钻具分级配合破碎；
- 适用地层：中-微风化岩层、硬岩层、超硬基岩层；
- Cutting ring with rock bits, releases the internal stress of rock;
- Drilling with the method of rolling and squeezing can increase the anti-wear ability of the barrel;
- Small barrel facilitates the coring operation, large barrel performs stage breaking;
- Applicable layers: medium or slightly weathered rock, hard or superhard bedrock;

型谱表
Model List

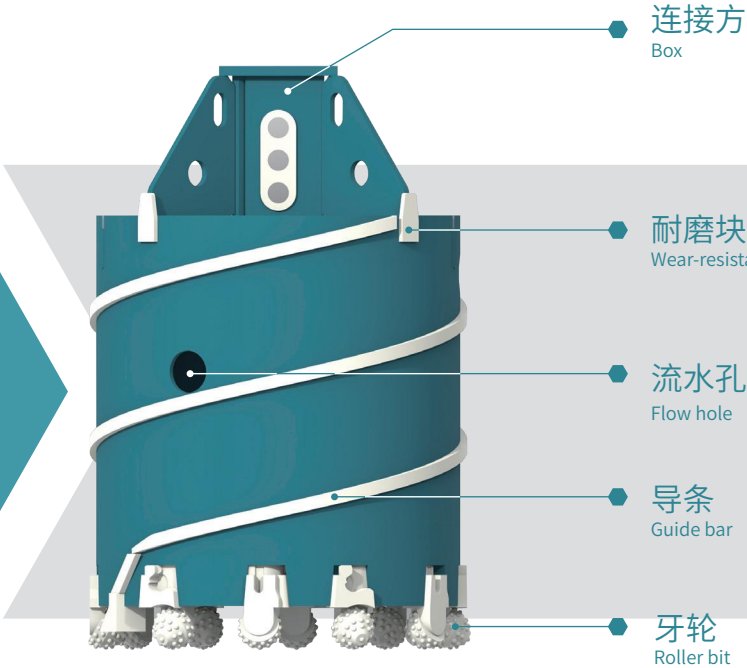
钻孔直径	筒体高度	筒体壁厚	加强圈厚度	加强圈高度	齿数	重量
Pile Dia.	Shell HIT.	Shell THK.	Stiffening Ring THK.	Stiffening Ring HIT.	Teeth No.	Weight
φ600	1200	20	40	250	4	650
φ800	1200	20	40	250	6	850
φ900	1200	20	40	250	8	1000
φ1000	1200	20	40	250	8	1100
φ1200	1200	20	40	250	10	1350
φ1500	1200	20	40	250	12	1700
φ1600	1200	20	40	250	14	1900
φ1800	1000	20	40	250	16	2000
φ2000	800	20	40	250	18	2160
φ2200	800	20	40	250	20	2350
φ2500	800	25	40	250	20	3050
φ2800	800	25	40	250	24	3650
φ3000	800	30	40	250	26	4250

备注:所有度量单位为毫米(mm);重量单位为千克(kg)。
Remark : The length is in millimeters, weight in kilograms.



牙轮筒钻

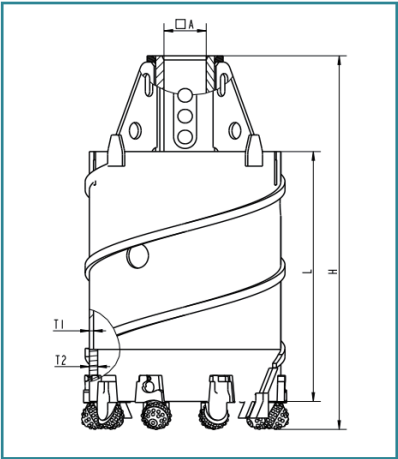
Core Barrel with Roller Bit



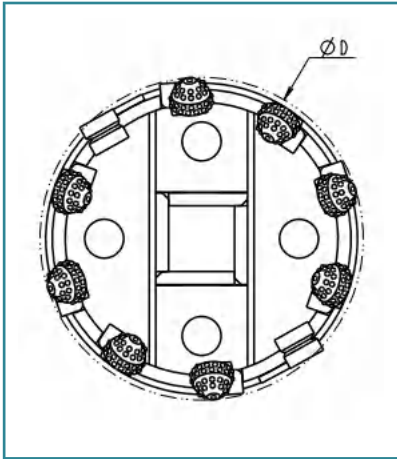
导条和取渣齿作用

The function of guide bars and slag removal teeth

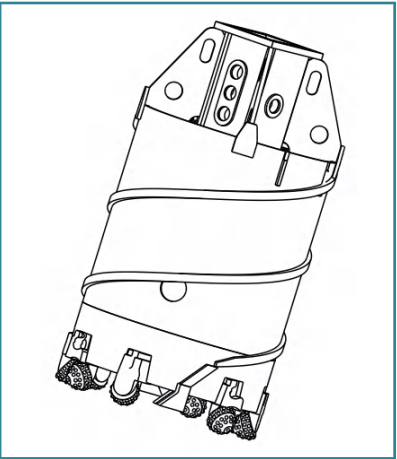
- 进行导渣，防止二次碾磨，影响钻进效率。
- Conduct slag guidance to prevent secondary grinding from affecting drilling efficiency.
- 可以搭配的齿形有：焊接式牙轮、可拆卸式牙轮。
- The suitable teeth: weld type roller bits、replaceable roller bits.



正视图
Front View



仰视图
Bottom View



轴侧图
Isometric View

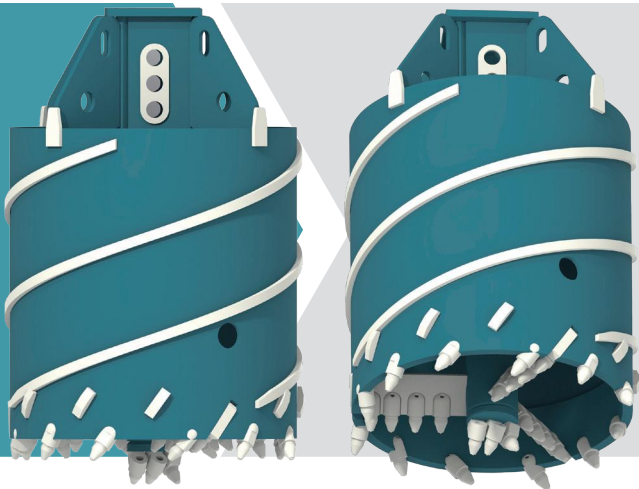
- φD: 钻孔直径
- L: 筒体高度
- T1: 筒体壁厚
- T2: 加强圈厚度
- H: 整体高度
- A: 连接方尺寸
- φD: Pile Dia.
- L: Shell HIT.
- T1: Shell THK.
- T2: Stiffening Ring THK.
- H: Overall HIT.
- A: Box Size



三叉戟截齿筒钻

Core Barrel with Crossing Cutter

钻具特点 Feature



- 筒体环切释放岩石围压，三叉戟跟进破碎；
- 裂隙发育丰富的地层，三叉戟提升带渣能力；
- Cutting ring with rock drilling bits and releases the internal stress of rock, while cutting inside;
- Crossing cutter make it easy to carry soil, when drilling in the full fracture rock layer;

型谱表

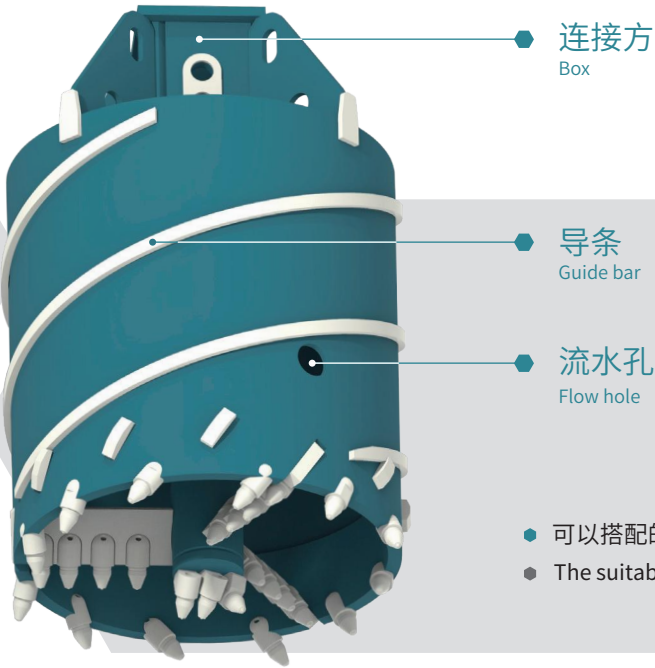
Model List

钻孔直径	筒体高度	筒体壁厚	加强圈厚度	加强圈高度	齿数	重量
Pile Dia.	Shell HIT.	Shell THK.	Stiffening Ring THK.	Stiffening Ring HIT.	Teeth No.	Weight
φ800	1200	20	40	250	18	1000
φ900	1200	20	40	250	21	1100
φ1000	1200	20	40	250	24	1200
φ1200	1200	20	40	250	27	1400
φ1500	1200	20	40	250	36	1800
φ1800	1000	20	40	250	40	2100

备注：所有度量单位为毫米 (mm)；重量单位为千克 (kg)。
Remark：The length is in millimeters, weight in kilograms.

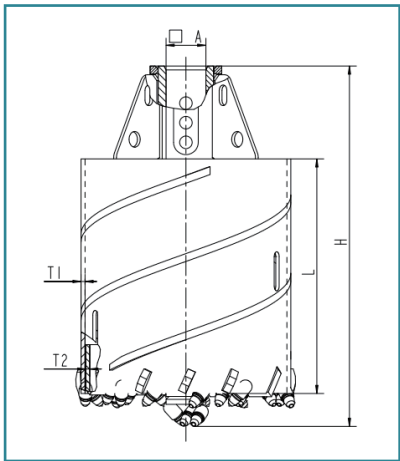
可定制项目 Customizable Items

- | | |
|----------|------------------------------------|
| 直径定制 | DIA. Customized |
| 筒体高度定制 | Shell HIT. Customized |
| 关键结构加强定制 | Key Component Reinforce Customized |
| 方头尺寸定制 | Kelly Box Customized |
| 内三叉定制 | Crossing Cutter Customized |
| 钻齿数目定制 | Teeth No. Customized |



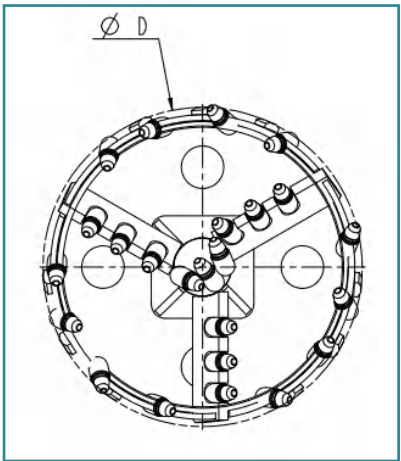
适用地层 Applicable layers

- 碎石土层、强风化岩层、中风化岩层；
- gravel soil, highly weathered rock, medium weathered rock;
- 可以搭配的齿形有：B47K19、B47K22、B47K25、C31等。
- The suitable teeth：B47K19, B47K22, B47K25, C31 etc.



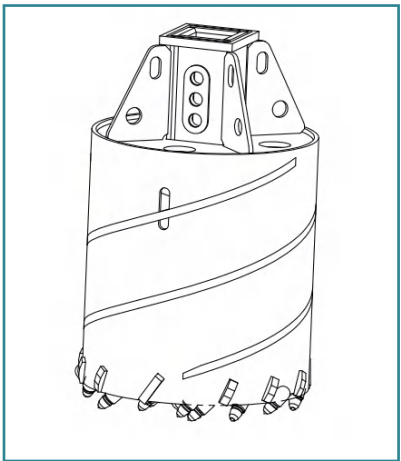
正视图

Front View



仰视图

Bottom View



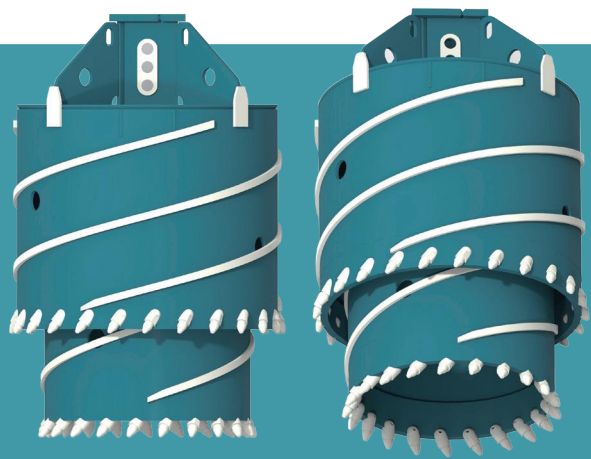
轴侧图

Isometric View

- | | |
|----------|--------------------------|
| φD：钻孔直径 | φD: Pile Dia. |
| L：筒体高度 | L: Shell HIT. |
| T1：筒体壁厚 | T1: Shell THK. |
| T2：加强圈厚度 | T2: Stiffening Ring THK. |
| H：整体高度 | H: Overall HIT. |
| A：连接方尺寸 | A: Box Size |



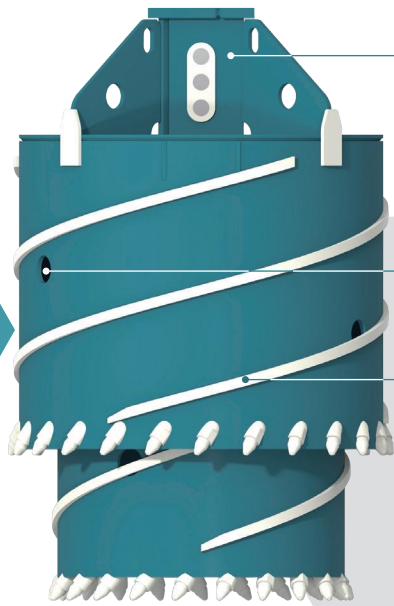
双层筒钻
Core Barrel with Double Shell



钻具特点 Feature

- 小筒体先行切入，大筒钻跟进环切释放岩石围压；
- 截齿阶跃破碎兼研磨钻进；
- Inner shell drilling first, the outer follow, Cutting ring with rock drilling bits;
- Rock drilling bits perform stage breaking and drilling;

双层筒钻
Core Barrel with Double Shell



连接方
Box

流水孔
Flow hole

导条
Guide bar

适用地层 Applicable layers

- 碎石土、卵石层、中风化岩层；
- gravel, boulder, medium weathered rock;

- 可以搭配的齿形有：B47K19、B47K22、B47K25、C31等。
- The suitable teeth: B47K19, B47K22, B47K25, C31 etc.

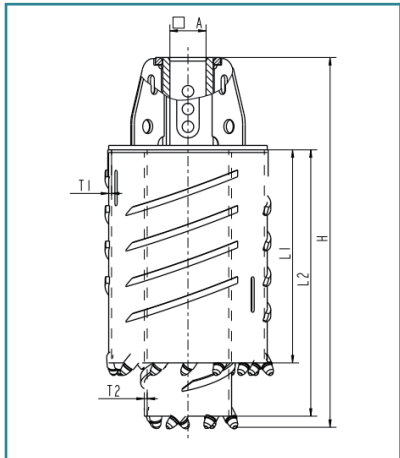
型谱表
Model List

钻孔直径	外筒体高度	内筒体高度	筒体壁厚	齿数	重量
Pile Dia.	Outer Shell HIT.	Inner Shell HIT.	Shell THK.	Teeth No.	Weight
φ1000	1200	1500	20	21	1200
φ1200	1200	1500	20	24	1400
φ1500	1200	1500	20	27	1900
φ1600	1200	1500	20	30	2050
φ1800	1000	1300	20	33	2500
φ2000	800	1100	20	36	2500

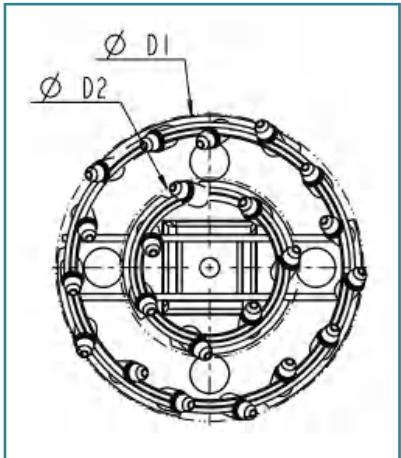
备注：所有度量单位为毫米(mm)；重量单位为千克(kg)。
Remark: The length is in millimeters, weight in kilograms.

可定制项目 Customizable Items

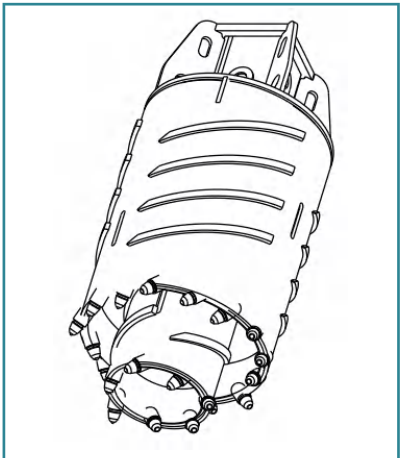
- 直径定制 DIA. Customized
- 筒体高度定制 Shell HIT. Customized
- 关键结构加强定制 Key Component Reinforce Customized
- 方头尺寸定制 Kelly Box Customized
- 双筒体间距定制 Space between the shell Customized



正视图
Front View



仰视图
Bottom View



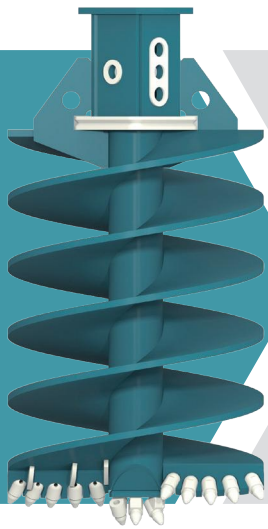
轴侧图
Isometric View

- φD1: 钻孔直径 φD1: Pile Dia.
- L1: 外筒体高度 L1: Outer Shell HIT.
- L2: 内筒体高度 L2: Inner Shell HIT.
- T1: 外筒体壁厚 T1: Outer Shell THK.
- T2: 内筒体壁厚 T2: Inner Shell THK.
- H: 整体高度 H: Overall HIT.
- A: 连接方尺寸 A: Box Size

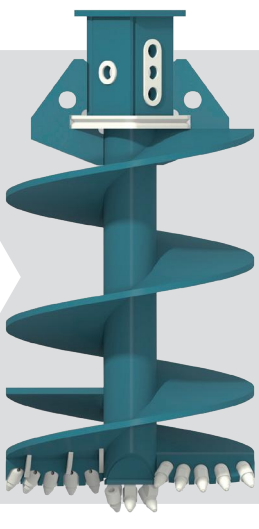


螺旋钻斗
Auger

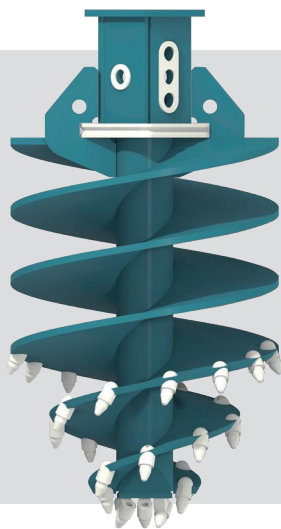
螺旋钻斗
Auger



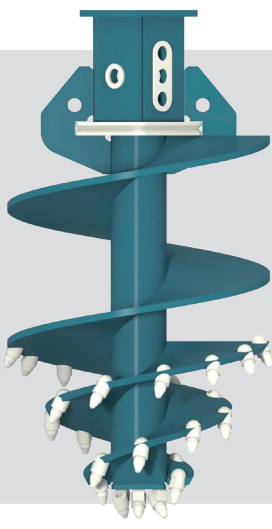
双头双螺直螺
Double start double flight
straight auger



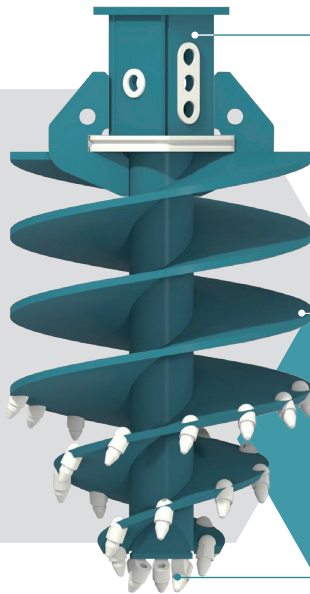
双头单螺直螺
Double head single flight
straight auger



双头双螺锥螺
Double start double flight
conical auger



双头单螺锥螺
Double head single flight
conical auger



连接方
Box

螺旋叶片
Flight

中心锥
Pilot bit

钻具特点 Feature

- 中心锥引导，锥形钻进，破碎岩石；
- 双头螺旋受力均匀，不宜偏孔；
- 双螺旋携渣能力强，黏性地层时，单螺易于卸渣；
- 适用地层：卵石层、泥岩、砂岩层、强-中风化硬岩层；
- Location by pilot, conical structure drilling into the rock;
- Double cutter bearing uniform force, can avoid inclined hole;
- Double spiral easy to carry soil, but meet cohesive soil, single spiral flight is easy to dump spoil;
- Applicable layers: medium weathered rock, bedrock;

型谱表
Model List

钻孔直径	螺旋高度	螺旋间距	叶片厚度	螺旋外径	齿数	重量
Pile Dia.	Spiral HIT.	Spiral Pitch	Flight THK.	Spiral OD.	Teeth No.	Weight
φ600	1500	600+400	30+20	550	6	550
φ800	1500	600+400	30+20	750	9	800
φ900	1550	600+500	30+20	850	10	850
φ1000	1500	600+600	30+20	950	11	900
φ1200	1500	600+600	30+30	1150	13	1250
φ1500	1500	600+600	30+30	1450	16	1750
φ1600	1500	600+600	30+30	1550	17	1900
φ1800	1500	600+600	35+30	1750	21	2600
φ2000	1500	600+600	35+30	1950	22	3050

备注：所有度量单位为毫米(mm)；重量单位为千克(kg)。
Remark：The length is in millimeters, weight in kilograms.

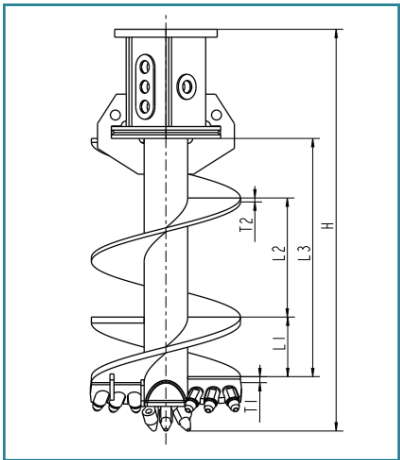
可定制项目 Customizable Items

- 螺旋高度定制
Spiral HIT. Custom
- 螺旋叶片间距定制
Spiral Pitch Custom
- 关键结构加强定制
Key Component Reinforce Custom
- 方头尺寸定制
Kelly Box Custom

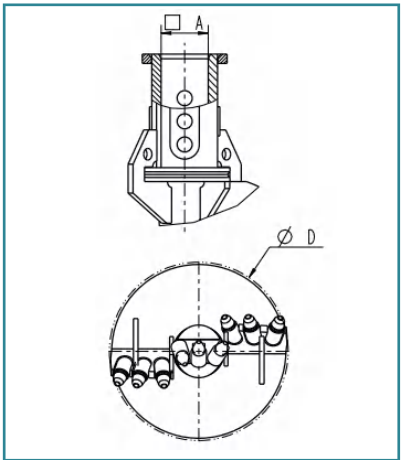


可以搭配的齿形有：B47K19、B47K22、B47K25、C31等。

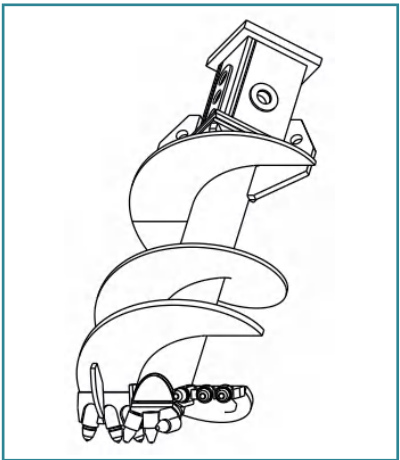
The suitable teeth：B47K19，B47K22，B47K25，C31 etc.



正视图
Front View



仰视图
Bottom View



轴侧图
Isometric View

- φD：钻孔直径
- L3：螺旋高度
- L2：螺旋间距
- L1：半个螺距
- T1：叶片厚度
- T2：叶片厚度
- H：整体高度

- φD: Pile Dia.
- L3: Spiral HIT.
- L2: Spiral Pitch
- L1: Half Spiral Pitch
- T1: Flight THK.
- T2: Flight THK.
- H: Overall HIT.



清孔钻头

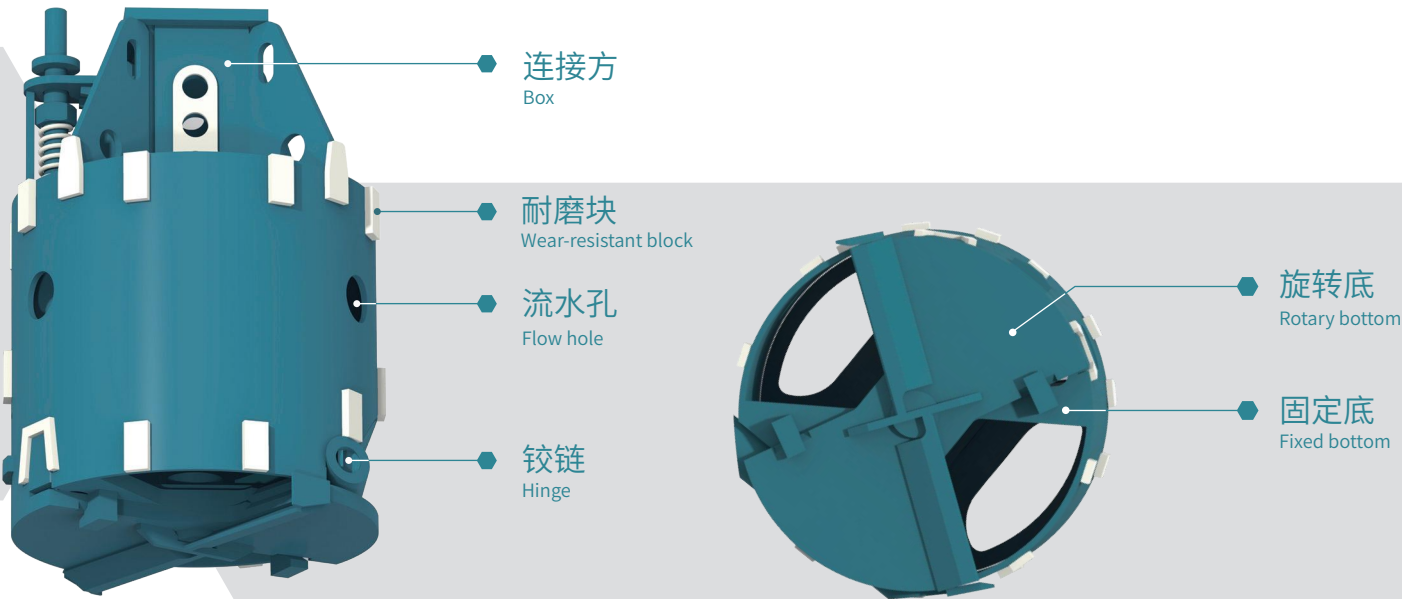
Cleaning Bucket

清孔钻头

Cleaning Bucket

钻具特点 Feature

- 直导板或无导板依工况选取；
 - 适用范围：清理孔底沉渣，流塑性软土地层；
- Choose straight guide plate or no guide plate according to different working conditions;
 - Applicable scope: cleaning spoil at pile bottom, soft layer;



型谱表

Model List

钻孔直径	筒体高度	筒体壁厚	固定底厚度	旋转底厚度	重量
Pile Dia.	Shell HIT.	Shell THK.	Fixed Bottom THK.	Rotate Bottom THK.	Weight
φ600	800	16	40	40	550
φ800	800	16	40	40	700
φ900	800	16	40	40	850
φ1000	800	16	40	40	950
φ1200	800	16	40	40	1200
φ1500	600	16	40	40	1500
φ1800	600	16	40	50	2450
φ2000	600	20	40	50	3150
φ2200	600	20	40	50	3500
φ2500	600	20	40	50	4500
φ2800	600	20	40	50	5150
φ3000	600	20	40	50	6150

备注:所有度量单位为毫米(mm);重量单位为千克(kg)。
Remark : The length is in millimeters, weight in kilograms.

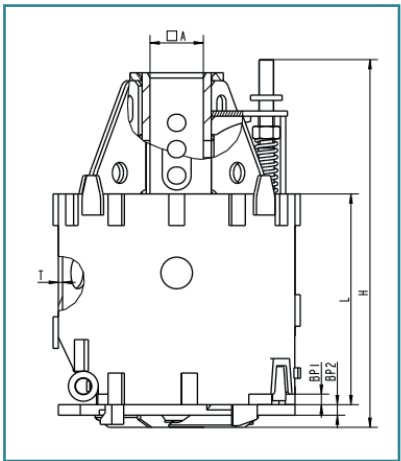
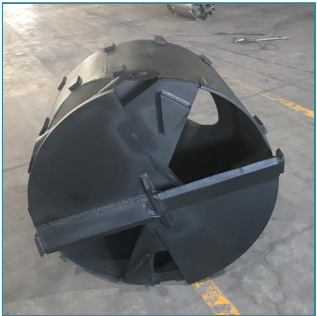
可定制项目 Customizable Items

- 清孔直径定制
 - 筒体高度定制
 - 单双底定制
 - 方头尺寸定制
- Cleaning DIA. Customized

Shell HIT. Customized

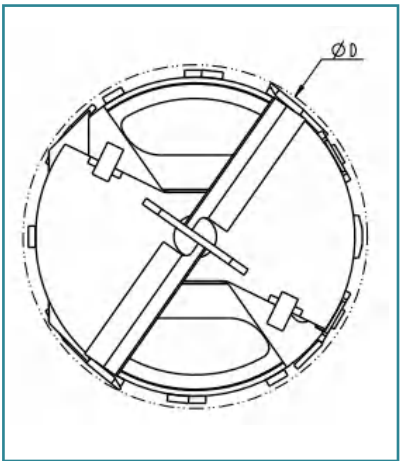
Bottom Customized

Kelly Box Customized



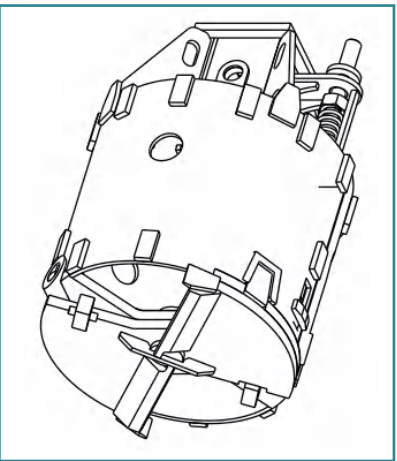
正视图

Front View



仰视图

Bottom View



轴侧图

Isometric View

- φD: 钻孔直径
 - L: 筒体高度
 - T: 筒体壁厚
 - BP1: 固定底厚度
 - BP2: 旋转底厚度
 - H: 整体高度
 - A: 连接方尺寸
- φD: Pile Dia.

L: Shell HIT.

T: Shell THK.

BP1: Fixed Bottom THK.

BP2: Rotate Bottom THK.

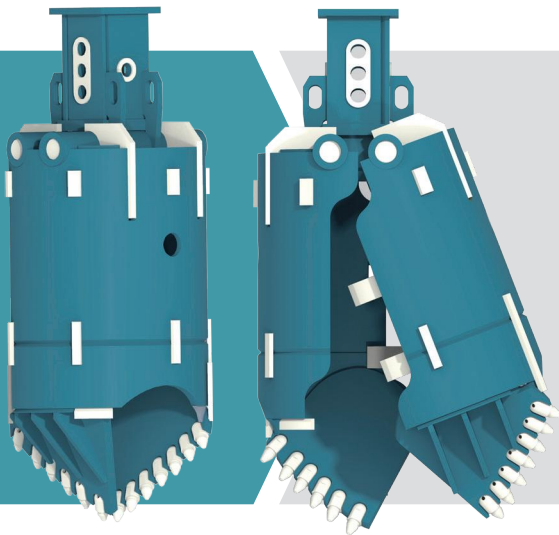
H: Overall HIT.

A: Box Size



体开式钻斗

Open-type Bucket



钻具特点 Feature

- 大进口口设计，体开式筒体结构，高效卸渣，提升钻进效率；
- 筒体，导板，加强筋强化设计，提升钻斗使用寿命；
- 筒体周围布置导条，防止吸钻；
- Large inlet of soil, open shell design, easy to dump spoil so increases the drilling efficiency;
- Super strength structure for shell and guide plate, increase the life of bucket;
- Guide strips arranged on the surface of bucket can avoid drilling tool sucked by the pressure;

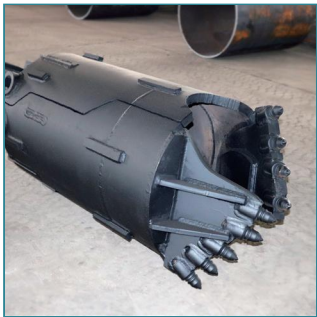
型谱表
Model List

钻孔直径	筒体高度	筒体壁厚	加强圈厚度	加强圈高度	齿数	重量
Pile Dia.	Shell HIT.	Shell THK.	Stiffening Ring THK.	Stiffening Ring HIT.	Teeth No.	Weight
φ600	1200	25	40	300	7	800
φ800	1200	30	40	300	9	1350
φ900	1200	30	40	300	10	1550
φ1000	1200	30	40	300	12	1900
φ1200	1200	30	40	300	13	2250

备注:所有度量单位为毫米 (mm) ;重量单位为千克 (kg)。
Remark : The length is in millimeters, weight in kilograms.

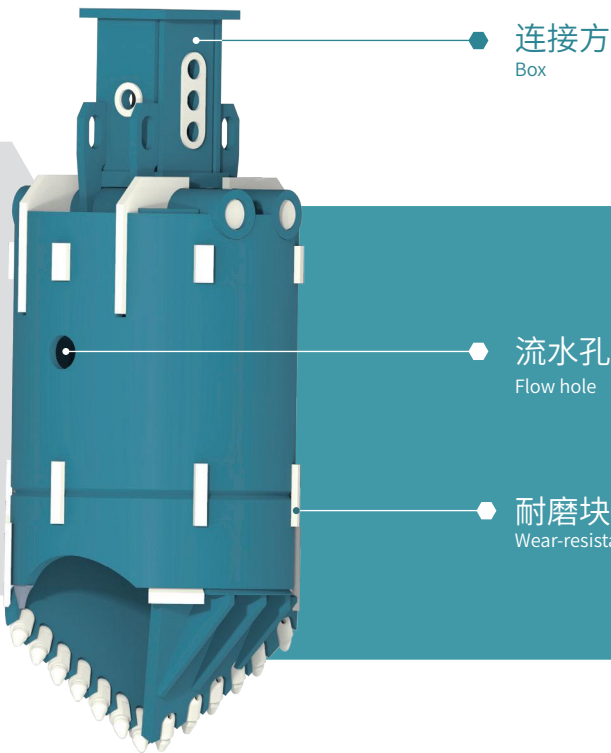
可定制项目 Customizable Items

- 直径定制
- 方头尺寸定制
- 齿型定制
- DIA. Customized
- Kelly Box Customized
- Flat Teeth Customized



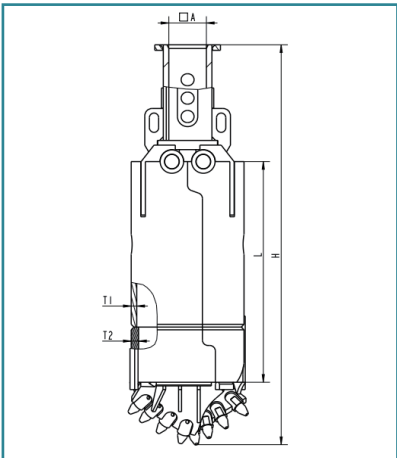
体开式钻斗

Open-type Bucket

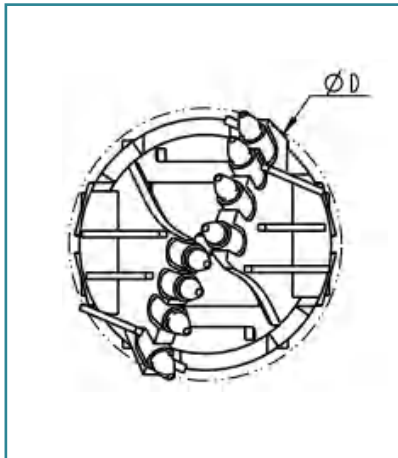


适用地层 Applicable layers

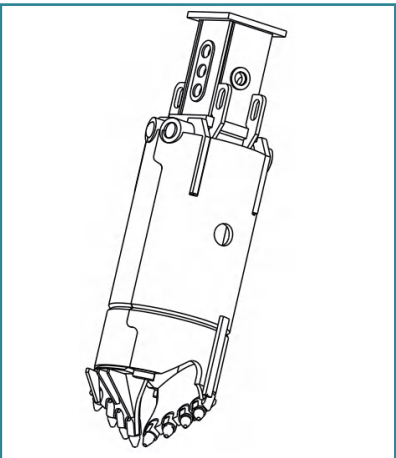
- 粘土层、淤泥层、强风化岩层；
- Applicable layers: clay, silt, highly weathered rock;
- 可以搭配的齿形有：B47K19、B47K22、B47K25、C31等。
- The suitable teeth: B47K19, B47K22, B47K25, C31 etc.



正视图
Front View



仰视图
Bottom View

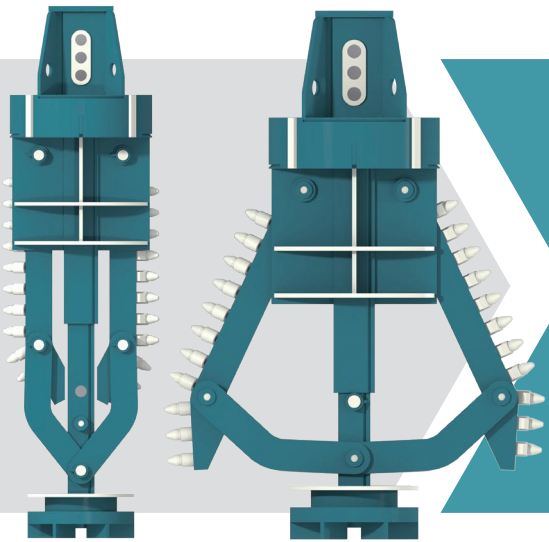


轴侧图
Isometric View

- φD: 钻孔直径
- L: 筒体高度
- T1: 筒体壁厚
- T2: 加强圈厚度
- H: 整体高度
- A: 连接方尺寸
- φD: Pile Dia.
- L: Shell HIT.
- T1: Shell THK.
- T2: Stiffening Ring THK.
- H: Overall HIT.
- A: Box Size



两翼扩底钻头
Belling Bucket



钻具特点 Feature

- 可根据需求调节扩底直径；
- 配合捞砂斗或清孔钻头一起使用；
- 箱式主体结构，结构简单，缩、扩灵活，维护方便；
- Adjustable cutting arms can meet the specific requirements of different reaming diameters;
- After reaming the bore hole, convey spoil with drilling bucket or cleaning bucket;
- Cutting arms are easy to spread and retract, box-type structure is easy to maintenance;

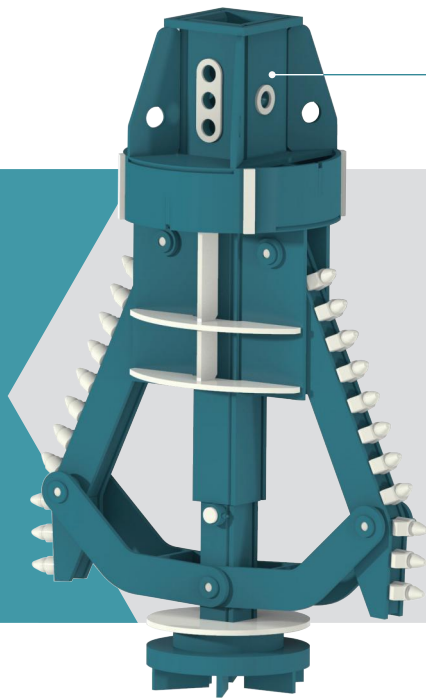
型谱表
Model List

型号 Model	翼展数目 Swing No.	齿数 Teeth No.	扩孔倍数 Reaming Multiples.	重量 Weight
φ600-1200	2	20	1.5-2.0	1150
φ800-1600	2	32	1.5-2.0	1650
φ900-1800	2	22	1.5-2.0	1800
φ1000-2000	2	30	1.5-2.0	2400
φ1200-2000	2	30	1.5-2.0	2800
φ1500-3000	2	32	1.5-2.0	4500

备注:所有度量单位为毫米(mm);重量单位为千克(kg)。
Remark : The length is in millimeters, weight in kilograms.

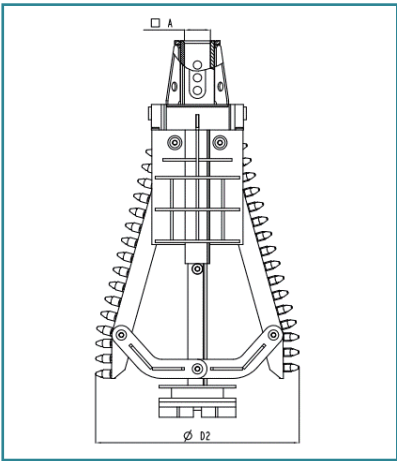
可定制项目 Customizable Items

- 型号直径定制 Model DIA. Custom
- 关重结构加强定制 Key Component Reinforce Custom
- 翼展数目定制 Swing No. Custom
- 方头尺寸定制 Kelly Box Custom
- 限位孔数目定制 Limit Hole No. Custom

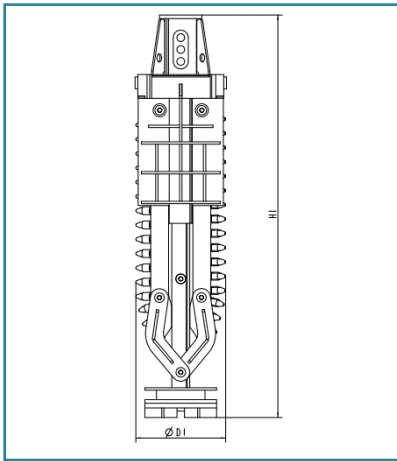


适用地层 Applicable layers

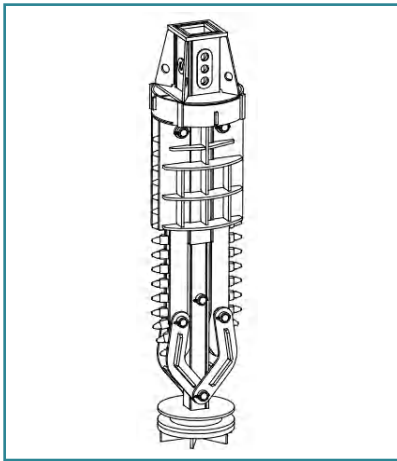
- 硬质土层、冻土层、黏性土层；
- hard stratum, frozen soil and plastic clay layer;
- 可以搭配的齿形有：B47K19、B47K22、B47K25、C31等。
- The suitable teeth: B47K19, B47K22, B47K25, C31 etc.



正视图
Front View



仰视图
Bottom View

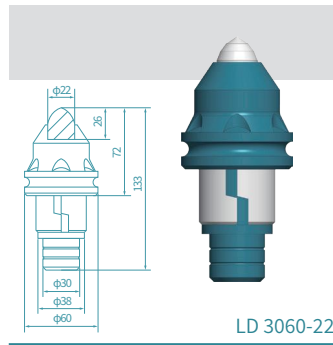


轴侧图
Isometric View

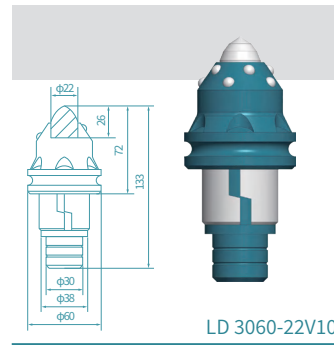
- φD1: 收缩直径 φD1: Shrink Dia.
- φD2: 展开直径 φD2: Expand Dia.
- H1: 整体高度 H1: Overall HIT.
- A: 连接方尺寸 A: Box Size



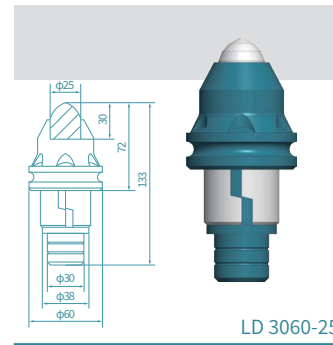
钻齿
Teeth



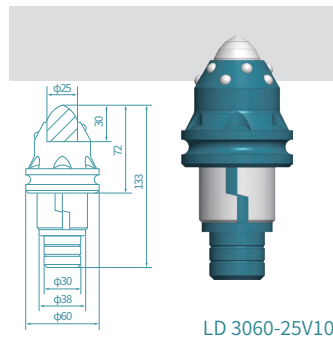
LD 3060-22



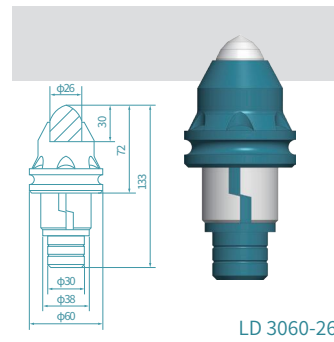
LD 3060-22V10



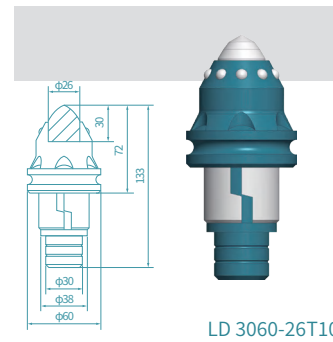
LD 3060-25



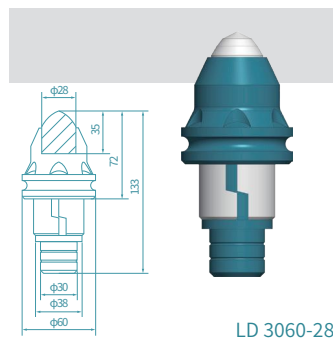
LD 3060-25V10



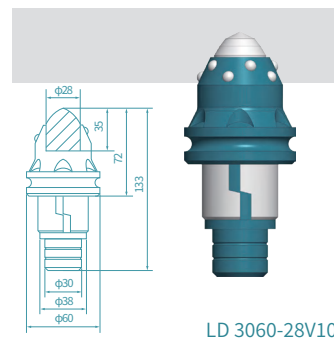
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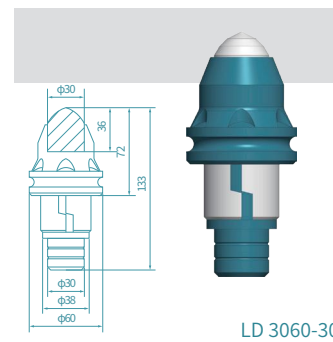
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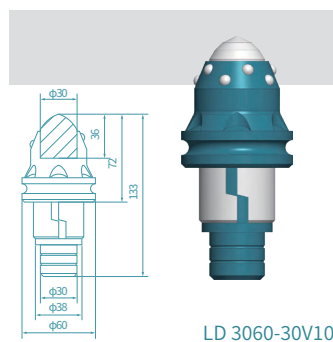
LD 3060-28



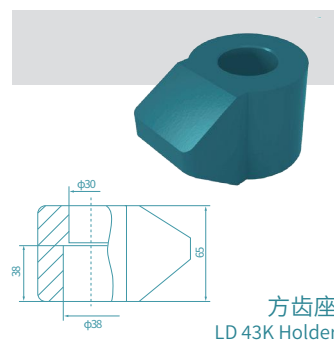
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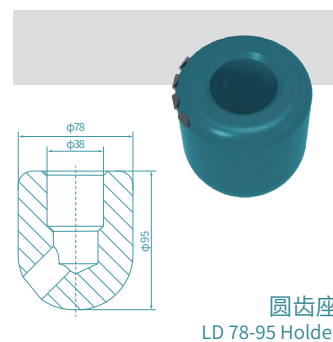
LD 3060-30



LD 3060-30V10



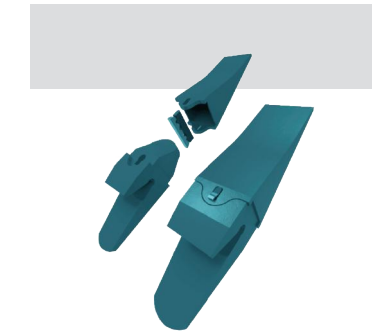
方齿座
LD 43K Holder



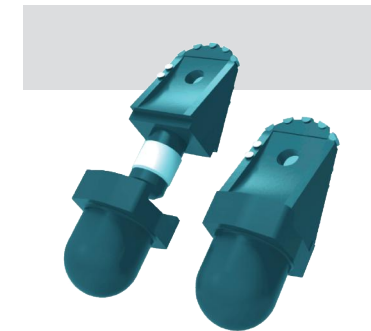
圆齿座
LD 78-95 Holder

钻齿
Teeth

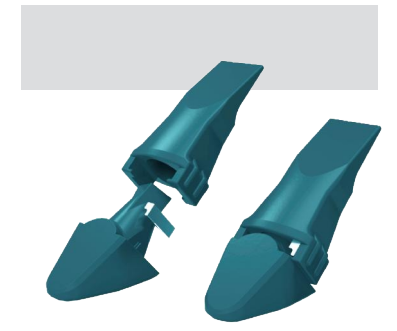
土齿系列
Flat Teeth



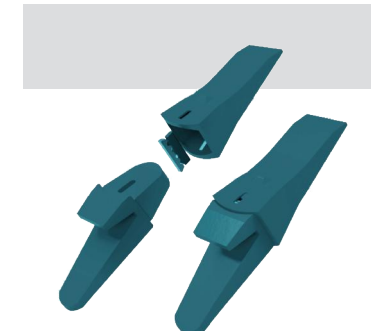
TL18 Teeth



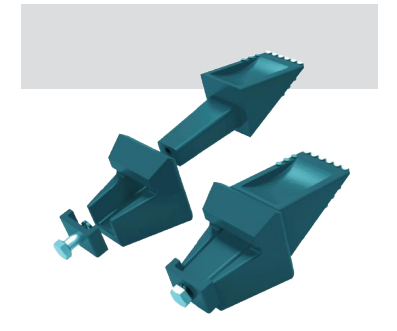
FZ72 Series



V20 Teeth



TL25 Teeth



FZ80 Series

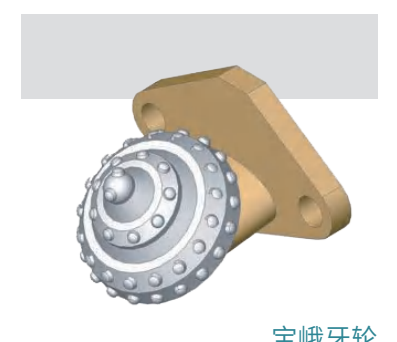
牙轮系列
Roller Bits



Roller Bits



焊接式牙轮
Weld Type Roller Bits



宝峨牙轮
Bauer Bits



鱼尾座
Fishtail Bits

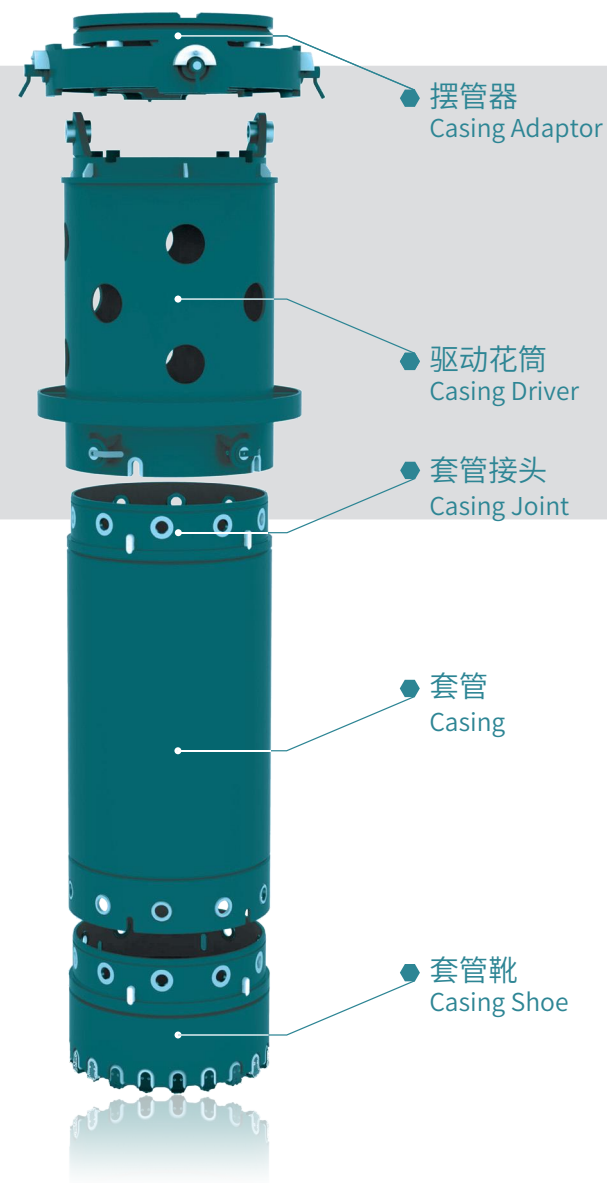


四分头
RP4

中心锥系列
Pilot Bits



套管
Casing



套管特点 Feature

- 产品技术参数与工艺均沿用宝峨标准；
- 套管接头经过热处理工艺，严格控制变形量，保证精度，各套管节可互换；
- 除适配国产钻机和宝峨钻机外，也适配于土力、卡萨等机型；
- The technical parameters and processes of the products are in line with the Bauer standard;
- Deformation and accuracy is strictly controlled through heat treatment, each casing is interchangeable;
- Besides Bauer rigs, casing is also suitable for Soilmec, Casagrande and other brands;

套管
Casing

单双壁套管 Double-walled casings and Single-walled casings

- 旋挖钻机和搓管机所配备的套管为重型套管。联达汇创提供两种类型的套管：

双壁套管
单壁套管

- 双壁套管套管应用比较广泛，双壁套管（主要用来传递扭矩和加压力）是专为旋挖钻机和搓管机应用而研发的。双壁套管的使用确保了钻孔平整。
- 单壁套管重量较轻，主要用于对重量要求严格的场所。
- The use of powerful rotary drives of the rotary rigs-series or the use of oscillators requires the application of heavy-duty casings. LIMTA offers two types of casings:
- **double-walled casings**
single-walled casings
- Double-walled casings are used universally, as they are designed especially for transmitting high rotational and vertical forces as created by the KDK rotary drives and oscillators.
- The use of double-walled casings ensures a flush drill string. Single-walled casings can be used for applications where weight reduction is important.



套管
Casing

单壁套管 Single Wall Casing

型谱表 Model List

套管直径	筒壁厚度	接头厚度	螺栓数目	重量（4米节）
Casing Dia.	Shell THK.	Casing THK.	Bolts No.	Weight(4 meter)
680-600	20	40	8	1400
750-670	20	40	10	1550
880-800	20	40	10	1820
900-820	20	40	10	1860
1000-920	20	40	10	2100
1080-1000	20	40	12	2250
1180-1100	20	40	12	2460
1280-1200	20	40	12	2680
1500-1400	25	50	12	4150
1700-1600	25	50	16	4720

● D1: 套管外径 D2: 套管内径 t1: 筒壁厚度 L: 单节套管长度

● D1: Casing Outer Dia. D2: Casing Inter Dia. t1: Shell THK. L: Single section length

双壁套管 Double Wall Casing

型谱表 Model List

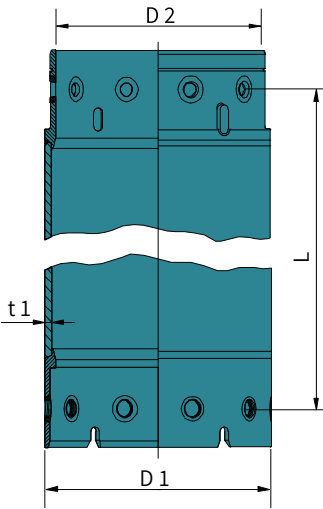
套管直径	外筒厚度	内筒厚度	接头厚度	螺栓数目	重量（4米节）
Casing Dia.	Outer Shell THK.	Inner Shell THK.	Casing THK.	Bolts No.	Weight(4 meter)
680-600	12	8	40	8	1390
750-670	12	8	40	10	1550
880-800	12	8	40	10	1820
900-820	12	8	40	10	1860
1000-920	16	8	40	10	2450
1080-1000	16	8	40	12	2630
1180-1100	16	10	40	12	3080
1280-1200	16	10	40	12	3350
1500-1400	20	12	50	12	5070
1700-1600	20	12	50	16	5770

备注：所有度量单位为毫米（mm）；重量单位为千克（kg）。

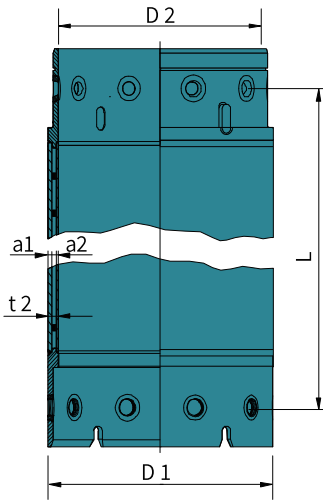
Remark : The length is in millimeters, weight in kilograms.

● D1: 套管外径 D2: 套管内径 a1: 外筒厚度 a2: 内筒厚度 t2: 筒壁间隙 L: 单节套管长度

● D1: Casing Outer Dia. D2: Casing Inter Dia. a1: Outer Shell THK. a2: Inner Shell THK. t2: Double wall gap L: Single section length



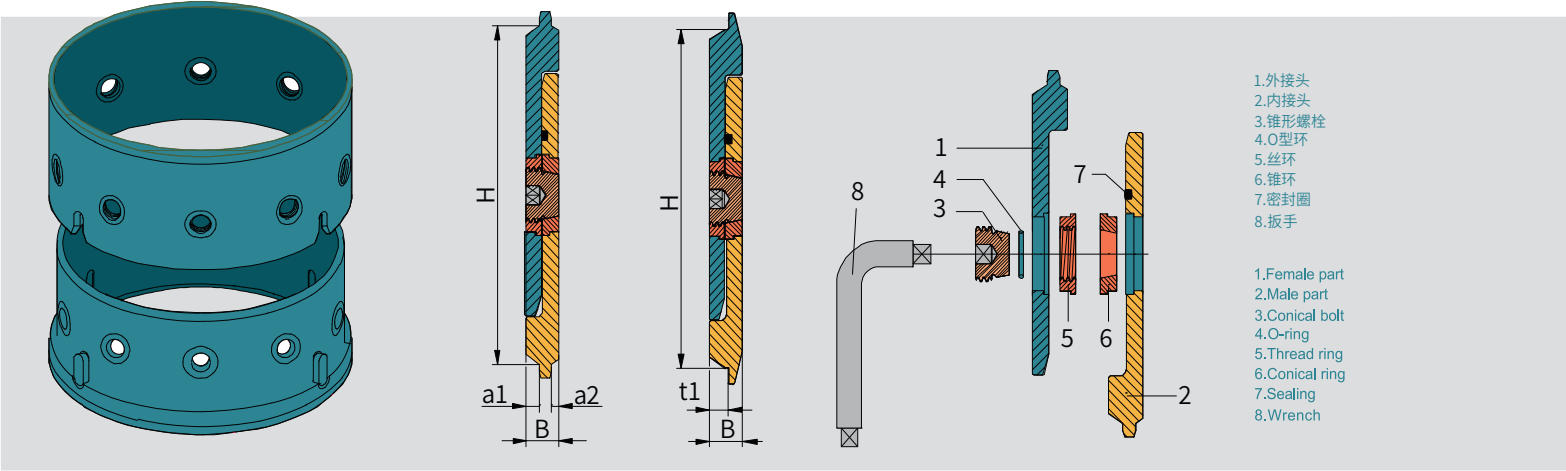
单壁套管剖面图
Single wall casing section diagram



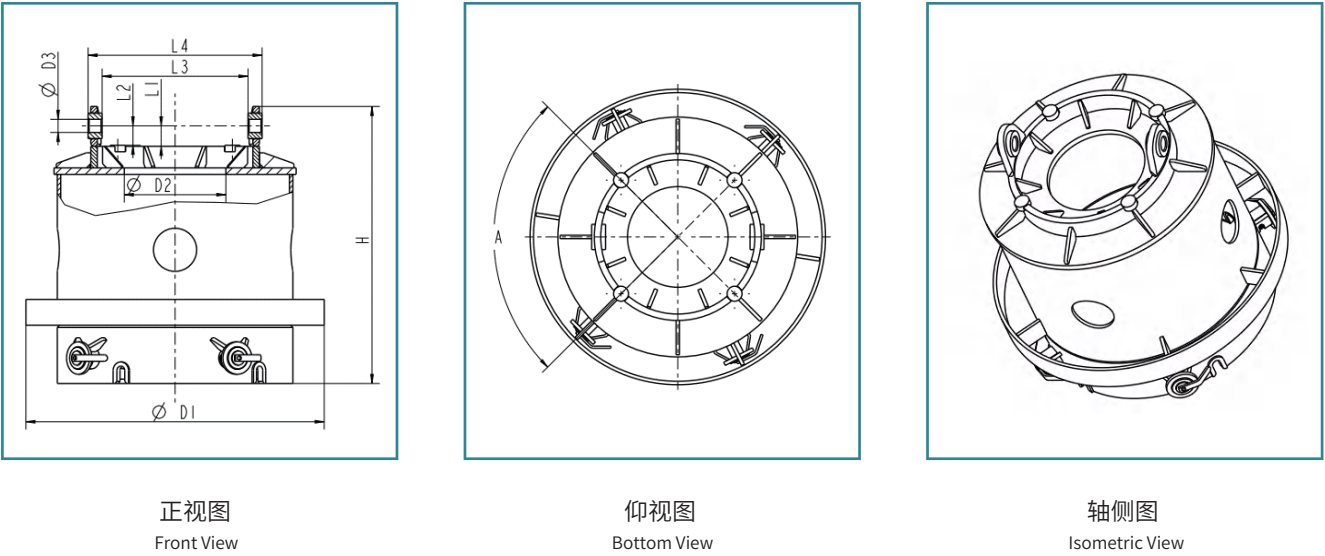
双壁套管剖面图
Double wall casing section diagram

套管
Casing

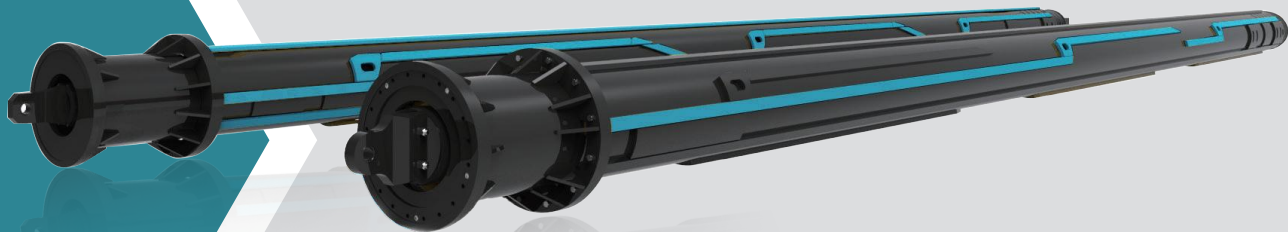
套管接头 Casing Joint



驱动花筒 Casing Driver



旋挖钻杆
Kelly Bar



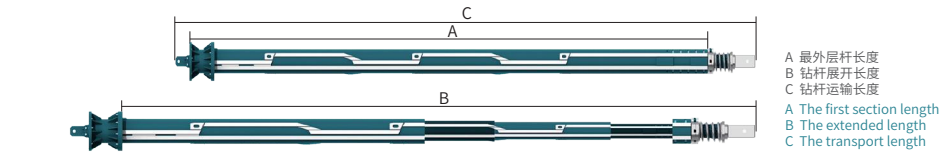
钻杆特点 Feature

- 原材料选控严格, 钻杆方头等关键零部件全部采用锻造工艺, 质量可靠;
- 加压点、键条、内键等部件采用热处理工艺, 并优化布键结构, 提高耐磨性;
- 钻杆整体抗扭安全系数高, 抗压及抗振能力亦高于平均水平, 更适合入岩要求;
- Strict selection of raw materials and forging parts such as drive stub to assure the reliable quality;
- Heat treatment is widely used in the key parts such as drive keys to improve wear resistance;
- With high torsional coefficient, the compression and vibration resistance of Kelly bar is higher than average level, high efficient in rock drilling construction;

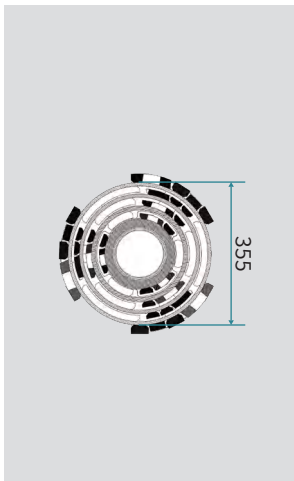
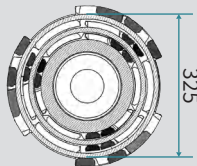


旋挖钻杆
Kelly Bar

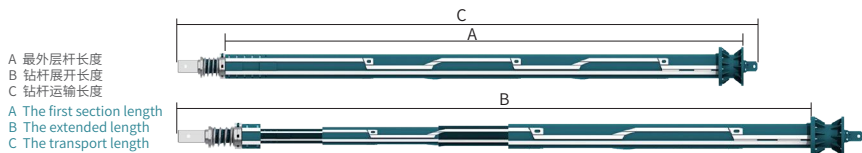
325系列钻杆型谱表
325 Series Kelly Bar Model List



名称 Name	型号 Type	A (mm)	B (mm)	C (mm)	钻深(m) Drilling depth	重量(T) Weight
三层机锁杆 3 sections Interlocking	φ325-3×12	12000	32550	13325	31	5.1
四层机锁杆 4 sections Interlocking	φ325-4×12	12000	45720	13325	43	4.5

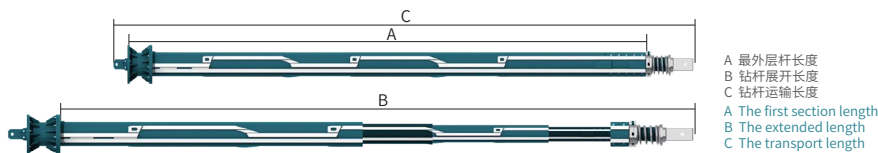


355系列钻杆型谱表
355 Series Kelly Bar Model List

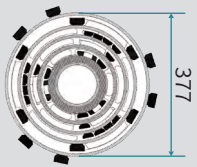
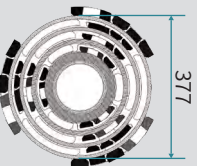


名称 Name	型号 Type	A (mm)	B (mm)	C (mm)	钻深(m) Drilling depth	重量(T) Weight
四层机锁杆 4 sections Interlocking	φ355-4×10	10000	36160	11325	34	4.8
四层机锁杆 4 sections Interlocking	φ355-4×12	12000	44160	13325	42	5.8
四层摩阻杆 4 sections Friction	φ355-4×10	10000	37460	11325	36	4.3
四层摩阻杆 4 sections Friction	φ355-4×12	12000	45460	13325	44	5.1

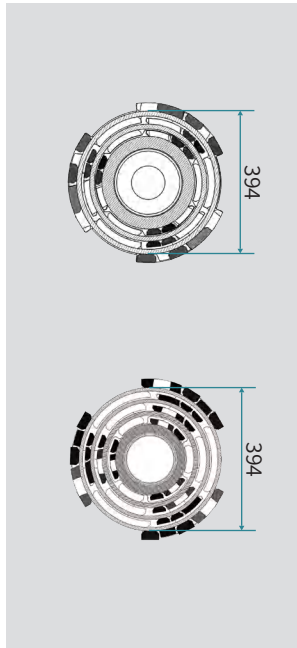
377系列钻杆型谱表
377 Series Kelly Bar Model List



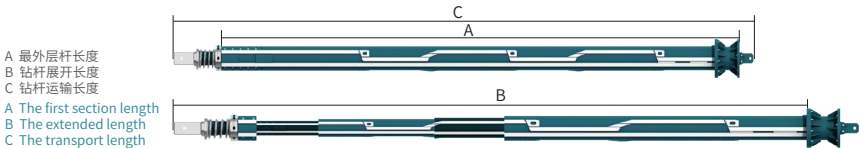
名称 Name	型号 Type	A (mm)	B (mm)	C (mm)	钻深(m) Drilling depth	重量(T) Weight
三层机锁杆 3 sections Interlocking	φ377-3×10	10190	37500	11600	25	7.1
三层机锁杆 3 sections Interlocking	φ377-3×12	12190	45500	13600	31	8.5
四层机锁杆 4 sections Interlocking	φ377-4×10	10190	37500	11600	34	5.4
四层机锁杆 4 sections Interlocking	φ377-4×12	12190	45500	13600	42	6.5
五层摩阻杆 5 sections Friction	φ377-5×10	10190	46700	11400	45	5.1
五层摩阻杆 5 sections Friction	φ377-5×12	12190	56700	13400	55	6.1



旋挖钻杆
Kelly Bar

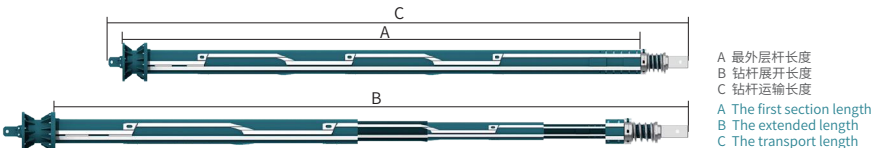


394系列钻杆型谱表
394 Series Kelly Bar Model List

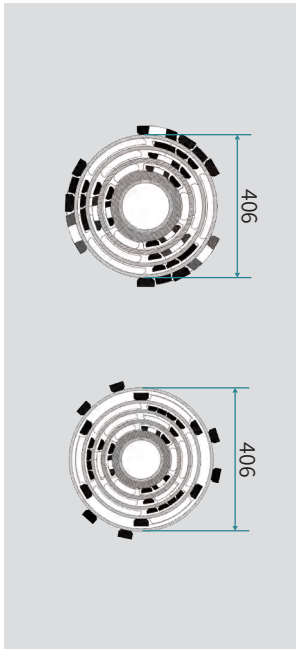


名称 Name	型号 Type	A (mm)	B (mm)	C (mm)	钻深(m) Drilling depth	重量(T) Weight
三层机锁杆 3 sections Interlocking	φ394-3×13	13190	36200	14640	33	8.5
三层机锁杆 3 sections Interlocking	φ394-3×15	15190	42200	16640	39	9.8
三层机锁杆 3 sections Interlocking	φ394-3×17	17190	48200	18640	45	10.6
四层机锁杆 4 sections Interlocking	φ394-4×13	13190	47000	14640	44	10.0
四层机锁杆 4 sections Interlocking	φ394-4×15	15190	55000	16640	52	11.5
四层机锁杆 4 sections Interlocking	φ394-4×17	17190	63000	18640	60	13.1

406系列钻杆型谱表
406 Series Kelly Bar Model List

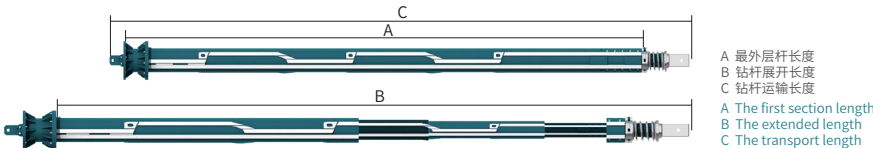


名称 Name	型号 Type	A (mm)	B (mm)	C (mm)	钻深(m) Drilling depth	重量(T) Weight
四层机锁杆 4 sections Interlocking	φ406-4×13	13190	46700	14640	44	8.2
四层机锁杆 4 sections Interlocking	φ406-4×15	15190	54700	16640	52	9.5
五层摩阻杆 5 sections Friction	φ406-5×13	13075	60800	14570	58	8.0
五层摩阻杆 5 sections Friction	φ406-5×15	15075	70800	16570	68	9.3

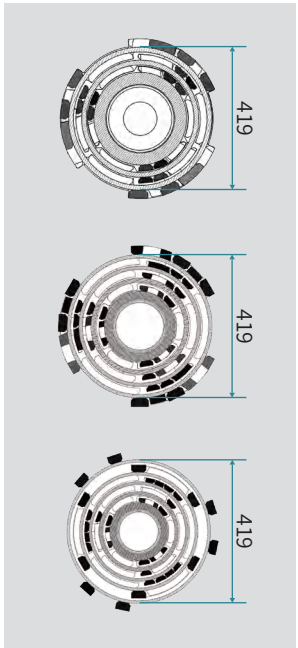


旋挖钻杆
Kelly Bar

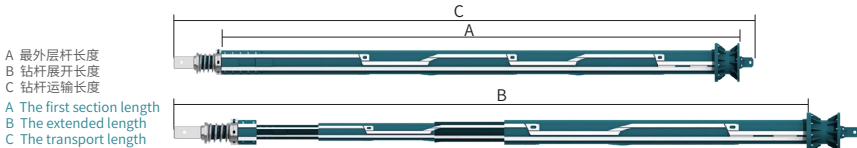
419系列钻杆型谱表
419 Series Kelly Bar Model List



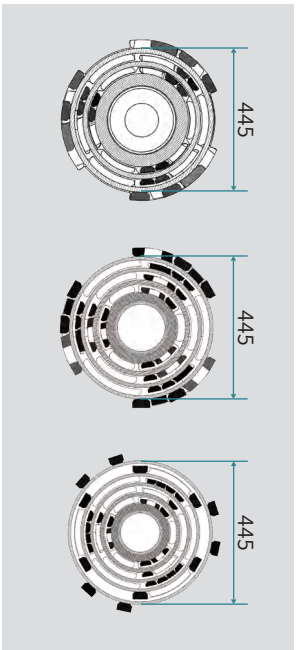
名称 Name	型号 Type	A (mm)	B (mm)	C (mm)	钻深(m) Drilling depth	重量(T) Weight
三层机锁杆 3 sections Interlocking	φ419-3×13	13190	38700	14640	36	9.3
三层机锁杆 3 sections Interlocking	φ419-3×15	15190	41700	16640	39	10.6
四层机锁杆 4 sections Interlocking	φ419-4×13	13190	46700	14640	44	9.2
四层机锁杆 4 sections Interlocking	φ419-4×15	15190	54700	16640	52	10.4
五层摩阻杆 5 sections Friction	φ419-5×13	13075	60800	14570	58	9.0
五层摩阻杆 5 sections Friction	φ419-5×15	15075	70800	16570	68	10.2



445系列钻杆型谱表
445 Series Kelly Bar Model List



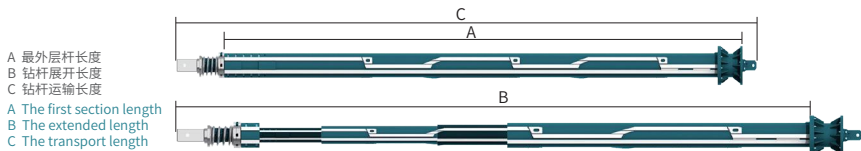
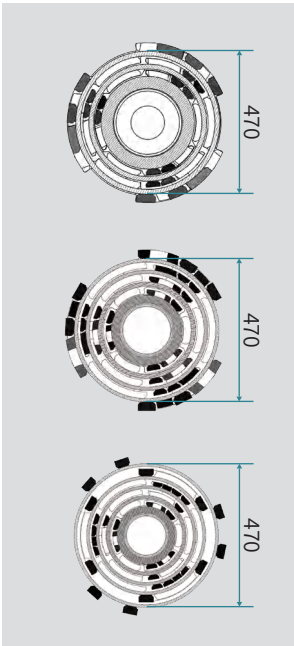
名称 Name	型号 Type	A (mm)	B (mm)	C (mm)	钻深(m) Drilling depth	重量(T) Weight
三层机锁杆 3 sections Interlocking	φ445-3×13	13190	36300	14640	33	9.2
三层机锁杆 3 sections Interlocking	φ445-3×15	15190	42300	16640	39	10.6
四层机锁杆 4 sections Interlocking	φ445-4×13	13190	46700	14640	44	10.0
四层机锁杆 4 sections Interlocking	φ445-4×15	15190	54700	16640	52	11.5
五层摩阻杆 5 sections Friction	φ445-5×13	13075	60800	14570	58	9.8
五层摩阻杆 5 sections Friction	φ445-5×15	15075	70800	16570	68	11.3



旋挖钻杆
Kelly Bar

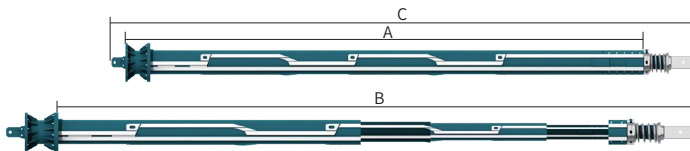
旋挖钻杆
Kelly Bar

470系列钻杆型谱表
470 Series Kelly Bar Model List



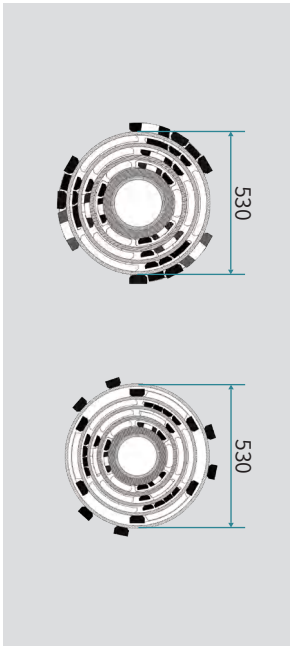
名称 Name	型号 Type	A (mm)	B (mm)	C (mm)	钻深(m) Drilling depth	重量(T) Weight
三层机锁杆 3 sections Interlocking	φ470-3×18	18190	50700	19640	48	14.3
三层机锁杆 3 sections Interlocking	φ470-3×22	22190	62700	23640	60	17.6
四层机锁杆 4 sections Interlocking	φ470-4×18	18190	66700	19640	64	15.5
四层机锁杆 4 sections Interlocking	φ470-4×22	22190	82700	23640	80	18.9
五层摩阻杆 5 sections Friction	φ470-5×18	18100	82800	19600	80	14.5
五层摩阻杆 5 sections Friction	φ470-5×22	22100	102800	23600	100	17.8

530系列钻杆型谱表
530 Series Kelly Bar Model List

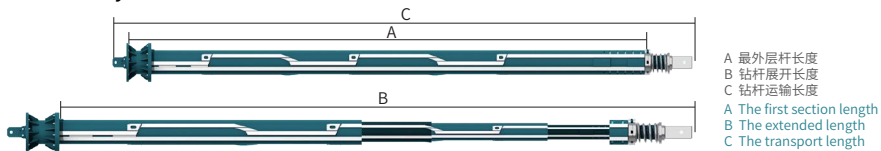


A 最外层杆长度
B 钻杆展开长度
C 钻杆运输长度
A The first section length
B The extended length
C The transport length

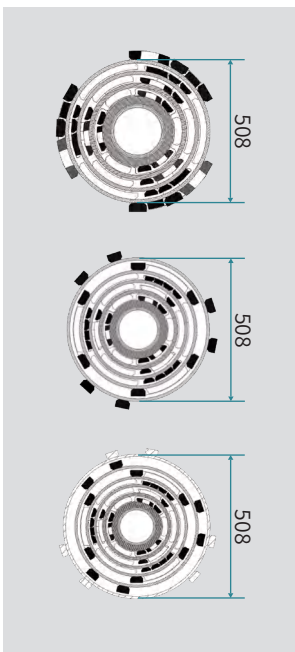
名称 Name	型号 Type	A (mm)	B (mm)	C (mm)	钻深(m) Drilling depth	重量(T) Weight
四层机锁杆 4 sections Interlocking	φ530-4×18	18000	66300	19450	64	17.2
四层机锁杆 4 sections Interlocking	φ530-4×20	20000	74300	21450	72	19.1
五层机锁杆 5 sections Interlocking	φ530-5×16	16000	71420	17535	70	16.5
五层机锁杆 5 sections Interlocking	φ530-5×18	18000	81420	19535	80	18.6



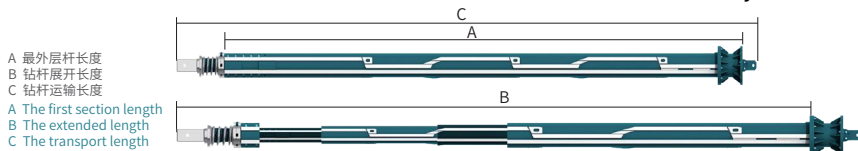
508系列钻杆型谱表
508 Series Kelly Bar Model List



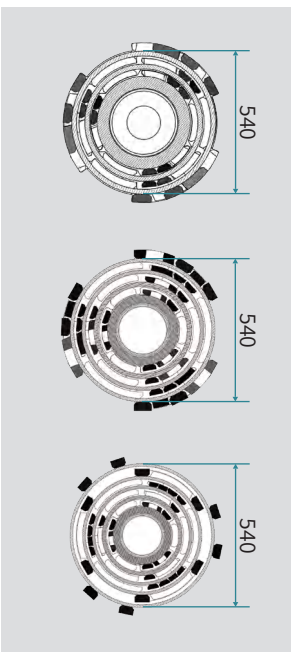
名称 Name	型号 Type	A (mm)	B (mm)	C (mm)	钻深(m) Drilling depth	重量(T) Weight
三层机锁杆 3 sections Interlocking	φ508-3×13	13190	36300	14640	33	11.7
三层机锁杆 3 sections Interlocking	φ508-3×15	15190	42300	16640	39	13.4
四层机锁杆 4 sections Interlocking	φ508-4×13	13190	46700	14670	44	10.8
四层机锁杆 4 sections Interlocking	φ508-4×15	15190	54700	16670	52	12.3
五层机锁杆 5 sections Interlocking	φ508-5×13	13075	59800	14580	57	12.6
五层机锁杆 5 sections Interlocking	φ508-5×15	15075	70800	16580	68	13.8
六层摩阻杆 6 sections Friction	φ508-6×13	13075	60800	14580	68	12.7
六层摩阻杆 6 sections Friction	φ508-6×15	15075	70800	16580	81	14.7



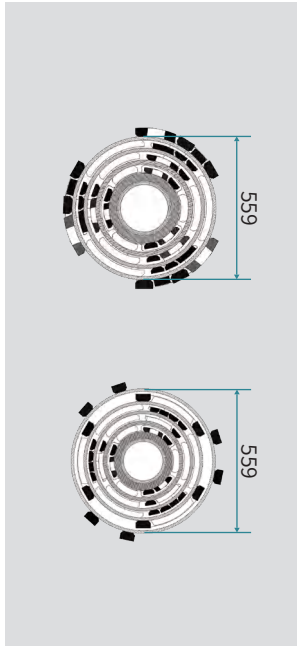
540系列钻杆型谱表
540 Series Kelly Bar Model List



名称 Name	型号 Type	A (mm)	B (mm)	C (mm)	钻深(m) Drilling depth	重量(T) Weight
三层机锁杆 3 sections Interlocking	φ540-3×15.5	15000	42710	16950	40.5	15.7
四层机锁杆 4 sections Interlocking	φ540-4×15.5	15000	56300	16950	54	16.2
四层机锁杆 4 sections Interlocking	φ540-4×18	18000	66300	19450	64	18.7
四层机锁杆 4 sections Interlocking	φ540-4×20	20000	74300	21450	72	20.7
五层机锁杆 5 sections Interlocking	φ540-5×16	16000	71420	17535	70	17.3
五层机锁杆 5 sections Interlocking	φ540-5×18	18000	81420	19535	80	19.5



旋挖钻杆
Kelly Bar



559系列钻杆型谱表
559 Series Kelly Bar Model List

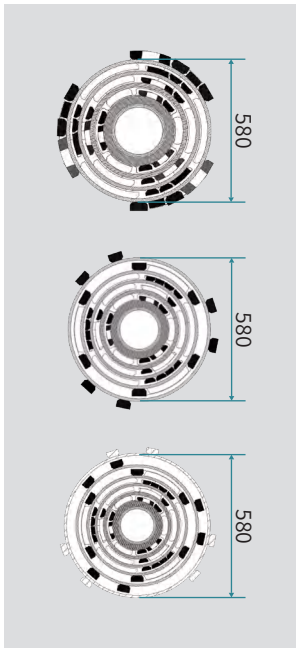
A 最外层杆长度
B 钻杆展开长度
C 钻杆运输长度
A The first section length
B The extended length
C The transport length

名称 Name	型号 Type	A (mm)	B (mm)	C (mm)	钻深(m) Drilling depth	重量(T) Weight
四层机锁杆 4 sections Interlocking	φ559-4×16	16050	57500	17750	56	13.5
五层机锁杆 5 sections Interlocking	φ559-5×18	18050	65500	19750	82	21.2
五层摩阻杆 5 sections Friction	φ559-5×16	16050	88000	17750	72	15.3
五层摩阻杆 5 sections Friction	φ559-5×18	18050	98000	19750	82	17.2

580系列钻杆型谱表
580 Series Kelly Bar Model List

A 最外层杆长度
B 钻杆展开长度
C 钻杆运输长度
A The first section length
B The extended length
C The transport length

名称 Name	型号 Type	A (mm)	B (mm)	C (mm)	钻深(m) Drilling depth	重量(T) Weight
四层机锁杆 4 sections Interlocking	φ580-4×18	18050	65500	19750	64	19.0
四层机锁杆 4 sections Interlocking	φ580-4×20	20050	73500	21750	72	21.1
五层机锁杆 5 sections Interlocking	φ580-5×18	18050	81500	19750	82	21.8
五层机锁杆 5 sections Interlocking	φ580-5×20	20050	91500	21750	92	24.3
五层机锁杆 5 sections Interlocking	φ580-5×22	22000	101000	23600	100	26.7
六层摩阻杆 6 sections Friction	φ580-6×18	18050	98000	19750	99	20.5
六层摩阻杆 6 sections Friction	φ580-6×20	20050	110000	21750	110	22.8

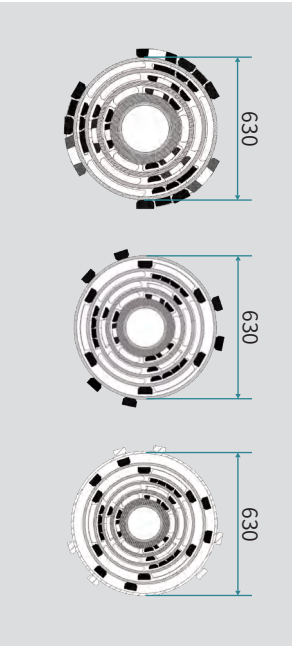


旋挖钻杆
Kelly Bar

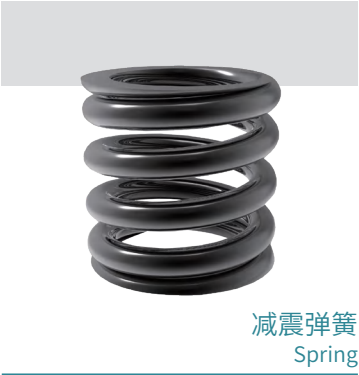
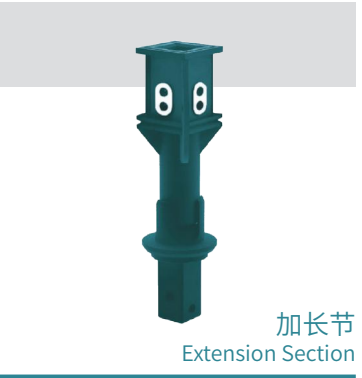
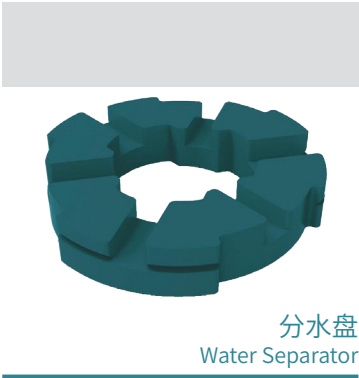
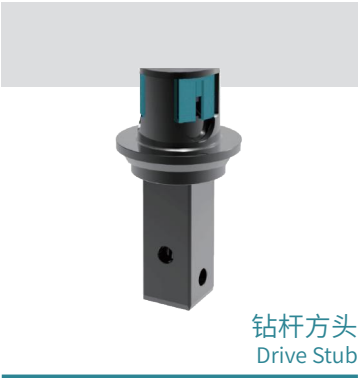
630系列钻杆型谱表
630 Series Kelly Bar Model List

A 最外层杆长度
B 钻杆展开长度
C 钻杆运输长度
A The first section length
B The extended length
C The transport length

名称 Name	型号 Type	A (mm)	B (mm)	C (mm)	钻深(m) Drilling depth	重量(T) Weight
四层机锁杆 4 sections Interlocking	φ630-4×20	20050	75000	21700	70	24.7
四层机锁杆 4 sections Interlocking	φ630-4×24	24050	91000	25700	86	29.7
五层机锁杆 5 sections Interlocking	φ630-5×20	20050	91500	21700	88	27.7
五层机锁杆 5 sections Interlocking	φ630-5×24	24050	111500	25700	108	33.3
六层摩阻杆 6 sections Friction	φ630-6×20	20050	113300	21700	110	25.9
六层摩阻杆 6 sections Friction	φ630-6×24	24050	137300	25700	130	31.1



钻杆配件
Accessories



产品运输
Product transportation



桩基础施工
整体方案解决专家
Strive to a frist class ONE-STOP shop
in foundation construction field.

